Caplio 400G wide

RICOH

Operation Manual

For the safe use of your camera, be sure to read the Safety Precautions thoroughly before use.

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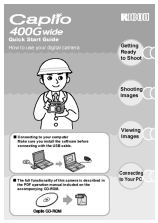
Using These Manuals

The two manuals included are for your Caplio 400G wide.

Please read this first:
Quick Start Guide (printed manual)



This booklet is designed to help you enjoy your Caplio 400G wide right away by providing quick explanations: "Getting Ready to Shoot", "Shooting Images", "Viewing Images", and "Connecting to Your PC." Before using your camera, first read this manual.

Please read as needed:
Operation Manual (this manual).

This explains how to use all the functions of your Caplio 400G wide.
To get the most out of your Caplio 400G wide, please read it through once and refer to it whenever necessary.

Using This Guide

Display examples:

This manual gives examples of LCD monitor display from Caplio G4 Wide that has shooting functions equivalent to those of this camera.
The LCD Monitor Display examples and sample images shown in this manual are created for the purpose of explanation. The actual display may be different.

Terms:

In this guide, still images, movies, and sounds are all referred to as "images" or "files."

Symbols:

The following symbols are used in this guide:

Important
This indicates important information and restrictions.

Terms
This indicates an explanation of a technical term.

Note
This indicates supplementary explanations and useful tips on camera operations.

Reference
This indicates page(s) relevant to a particular function. "p.xx" is used to refer you to pages in this manual.

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Chapter 1 Using Your Camera

Section 1 Getting Started

This section explains how to get your camera ready, from taking it out of the package to preparing to shoot.

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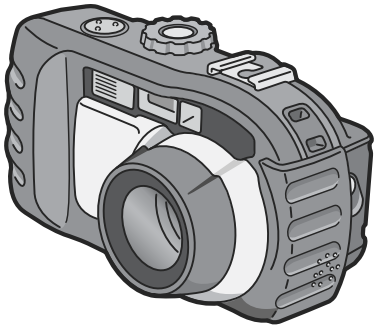
Checking that Everything is Packed

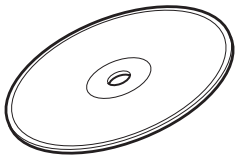
The following items should be included with the camera. Please make sure everything was packed.

Caplio 400G wide

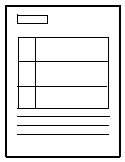


CD-ROM

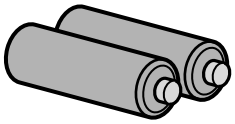
The software and the operation manual are included on this CD-ROM.



Warranty Card

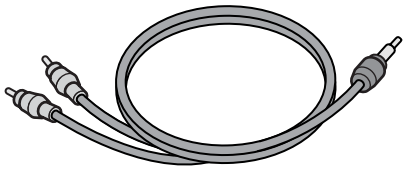


AA Alkaline Batteries (2)



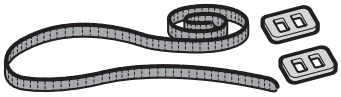
AV Cable

Used to connect the camera to a TV unit.



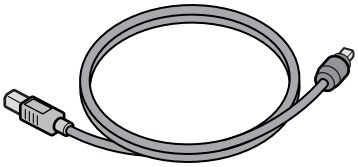
Safety Precautions

Neck Strap

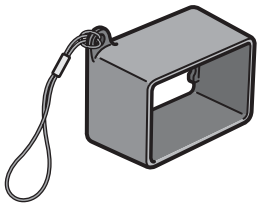


USB Cable

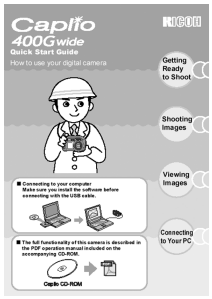
Used to connect the camera to a personal computer or Direct Print supported printer.



LCD Hood

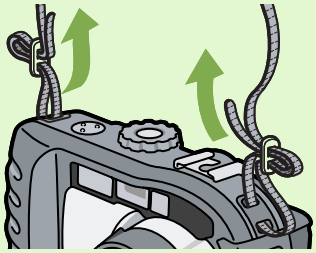


Quick Start Guide



Attaching the neck strap to the camera

Use the camera with the accessory neck strap so as not to drop.
Thread the tips of the strap through the camera's strap attachment pegs and attach them as shown.



- In the unlikely event that something is missing or damaged, please contact the store where you purchased the camera.
- After checking the contents of the warranty card, please keep it in a safe place.

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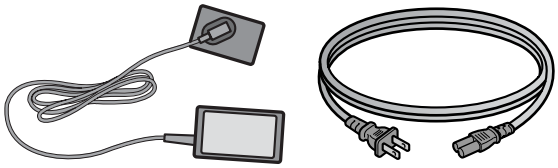
Optional Accessories

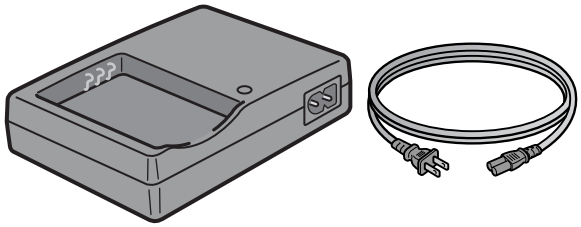
AC Adapter (AC-4a)

Used to supply power from a home outlet to the camera. Connect this adapter for long-time play or image transfer to a personal computer.



Wide Conversion Lens (DW-4)

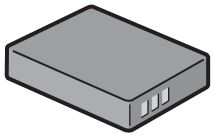
Battery Charger (BJ-2)



Other products sold separately:

- **PC Card Adapter (FM-SD53)**
- **Soft Case (SC-40)**
- **Rechargeable Battery Set (BS-3)**
  Includes the Rechargeable Battery (DB-43) and Battery Charger (BJ-2).
- **SD Memory Card (available in stores)**

Rechargeable Battery (DB-43)



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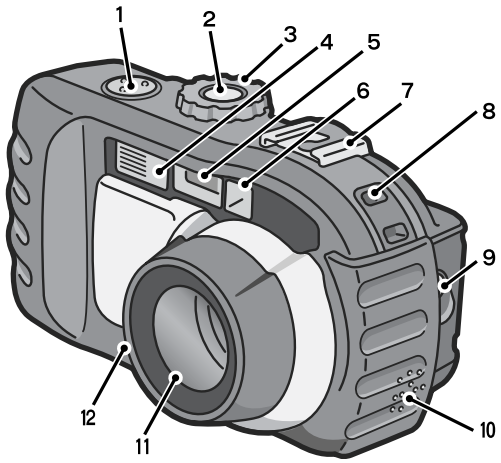
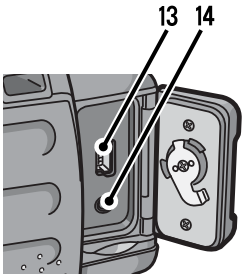
Names of Parts

It is necessary to know these in order to understand the explanations in this manual. Check the following.

Camera

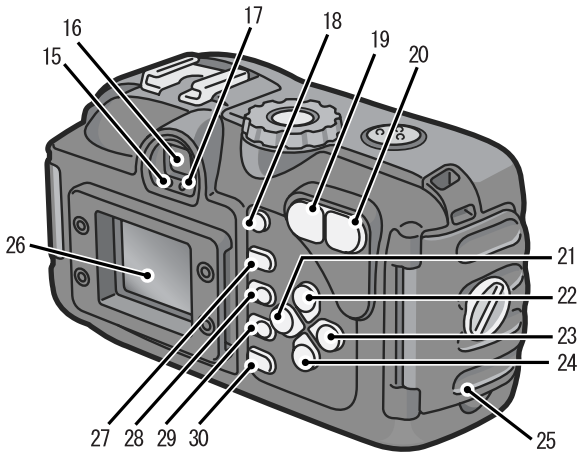
Front View





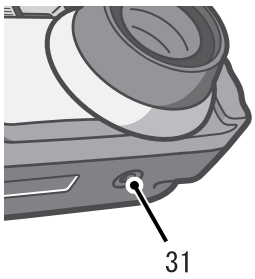
1. Shutter Release Button
2. Power Button
3. Mode Dial
4. Flash
5. Accessory Shoe
6. AF Window
7. Viewfinder
8. Terminal Cover
9. Lens
10. USB Terminal
11. AV Output Terminal
12. Speaker
13. Microphone
14. Strap Attachment Pegs

Rear View



15. Auto Focus Lamp
16. Viewfinder
17. Flash Lamp
18. ADJ. Button
19. [T] (Wide-angle)/[▪] (Thumbnail Display) Button
20. [T] (Telephoto)/[🔍] (Enlarged View) Button
21. ◀ Button/[⏎] (Quick Review) Button
22. ▲ Button
23. ▶ Button/[ϟ](Flash) Button
24. ▼ /[❀] (Macro) Button
25. Battery/Card Cover
26. LCD Monitor
27. [🗑] (Delete)/[⏲] (Self-timer) Button
28. MENU Button
29. OK Button
30. DISP Button
31. Tripod Screw Hole (underside)

Bottom



To avoid damaging the connectors, do not put any objects into the camera's microphone or speaker hole.

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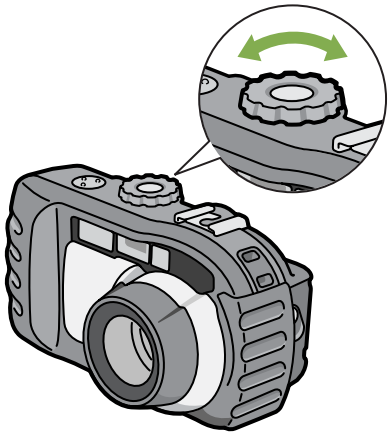
How to Use the Mode Dial

The Mode Dial is on the top of the camera.
The Mode Dial is used to select the desired mode and operation for shooting and playback (still image viewing).

1 Turn the Mode Dial to the symbol of the mode you want to use.



Mode Dial Symbols and Functions.

Symbol	Mode Name	Function
SETUP	Setup Mode	Allows you to set and confirm camera settings.
🎙	Voice Memo Mode	Allows you to record sounds.
CALS	CALS Mode	Allows you to fix the Picture Quality Mode and Image Size used for shooting still images at N1280.
SCENE	Scene Mode	Allows you to optimize the camera settings for movies and five different scenes.
📷	Shooting Mode	Allows you to shoot still images.
▶	Playback Mode	Allows you to playback and delete still images and movies.

CALS
In the CALS mode, the picture quality and image size are fixed at N1280 (Normal mode: 1280 x 960) suitable for construction site photos.
With simple operation of the Mode Dial, you can shoot photos in a construction environment without minding the setting of picture quality or size.

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Inserting the Batteries

The following batteries can be used in the camera. Please choose which kind to use according to your needs.

Battery Type	Feature
AA Alkaline Batteries (LR6) (included)	You can obtain them anywhere, so they are convenient for travel. However, in a low-temperature environment the number of shots you can take will decrease. Warm the batteries before use. It is recommended that you use the rechargeable battery when using the camera for a long time.
Rechargeable Battery (DB-43) (sold separately)	This is a lithium-ion battery. This is economical because you can recharge it using the battery charger BJ-2 (sold separately) and use it over and over again. They last a long time, so they are convenient for travel.
AA Nickel Batteries (available in stores)	These batteries are not rechargeable. However, they last a long time as compared with AA Alkaline Batteries when used with a digital camera.
Nickel-Hydrogen Battery (available in stores)	This battery is economical because you can recharge and use it over and over again. Please use a battery recharger available in stores.

Indication of the Number of Images You Can Take

Battery Type	Number of Shots (Normal Mode)	Number of Shots (Power-Save Mode) *1
AA Alkaline Batteries (LR6)	approx. 100	approx. 110
Rechargeable Battery (DB-43)	approx. 400	approx. 450

*1 The number of shots in the Synchro-Monitor Mode (see P.24)

The number of shots is based on a temperature of 22 degrees Celsius, shooting at 30-second intervals and one out of every two being shot with the flash.

If you set the camera to the Power-Save mode, the number of shots you can take will increase.

In addition to the batteries, you can use the AC Adapter (sold separately).

- The nickel-hydrogen battery may be inert and consequently it may not supply power immediately after it is purchased or when left unused for more than a month. In such a case, recharge the battery two or three times before use. The battery self-discharges with time even if the camera is not used, so recharge it before use.
- Other batteries, such as manganese dry cell (R6) and Ni-Cd, cannot be used.
- Please remove the batteries if you are not going to use the camera for a long period of time.
- The life of an AA alkaline battery (LR6) depends on the brand and the storage time from the date of production. In addition, the life of an alkaline battery becomes shorter at low temperatures.
- The Nickel-Hydrogen Battery is not factory-charged. Charge it before use.
- The battery may become very hot immediately after operation. Turn the camera off and leave it to cool down sufficiently before removing the battery.

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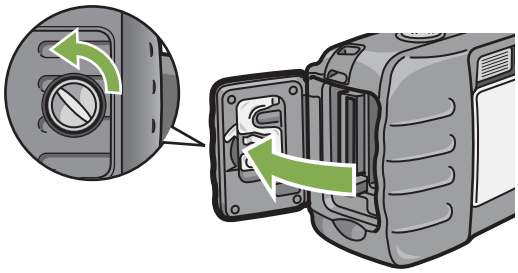
Using the Batteries

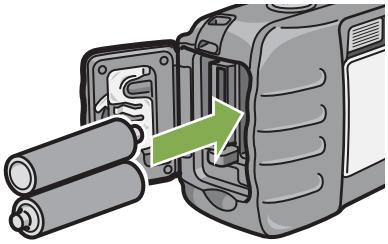
Insert the batteries following these steps.

1 Make sure the camera power is off.

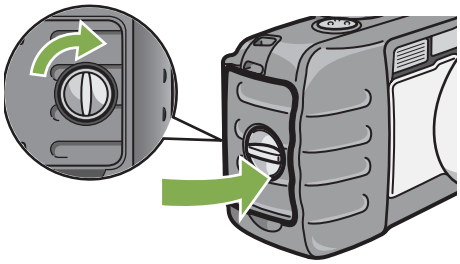
2 Turn the battery/card cover's knob toward the ⊖ mark to open the cover.



3 Insert the two batteries, making sure they are facing the correct way.



4 Close the battery/card cover and turn the knob toward the ⊖ mark.



When the batteries wear out

Just before the batteries wear out, is displayed on the LCD Monitor. When this happens, replace the batteries with a fresh set.

- Before opening or closing the cover, make sure that no contaminants adhere on the camera. Remove water, sand, or mud from it. Do not open and close the cover in a place where such contaminants can easily get into the camera.
- Other batteries, such as manganese dry cell (R6) and Ni-Cd, cannot be used.
- With AA Alkaline Batteries (LR6), the number of shots may differ depending on the batteries.
- Please remove the batteries if you are not going to use it for a long period of time.

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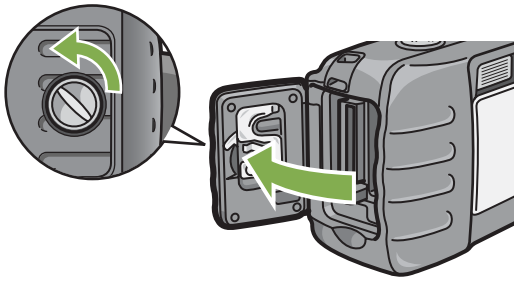
Using the Rechargeable Battery

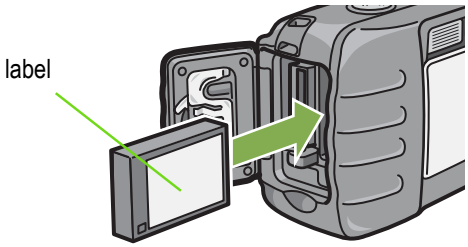
The DB-43 rechargeable battery (sold separately) is convenient for extended use because it can be used over and over again.

Inserting the Rechargeable Battery

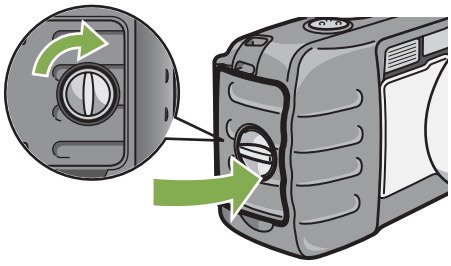
1. **Make sure the camera power is off.**
2. **Turn the battery/card cover's knob toward the ⋐ mark to open the cover.**



3. **Insert the rechargeable battery.**

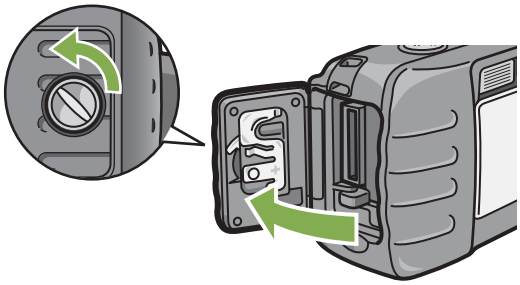


4. **Close the battery/card cover and turn the knob toward the ⋐ mark.**

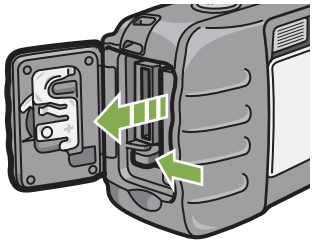


Removing the Rechargeable Battery

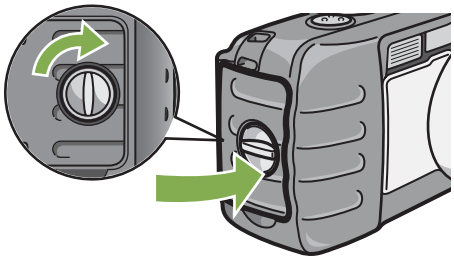
1. **Make sure the camera power is off.**
2. **Turn the battery/card cover's knob toward the ⋐ mark to open the cover.**



3. **Remove the rechargeable battery.**



4. **Close the battery/card cover and turn the knob toward the ⋐ mark.**



- Before opening or closing the cover, make sure that any contaminants adhering to the camera, such as water, sand, or mud, are removed from it. Do not open and close the cover in a place where such contaminants can easily get into the camera.
- Please remove the rechargeable batteries if you are not going to use the camera for a long period of time.
- Use the battery charger BJ-2 (sold separately) to recharge the battery.

Rechargeable Battery Charging Time (when using BJ-2)	
DB-43	Approx. 220 min. (at room temperature)

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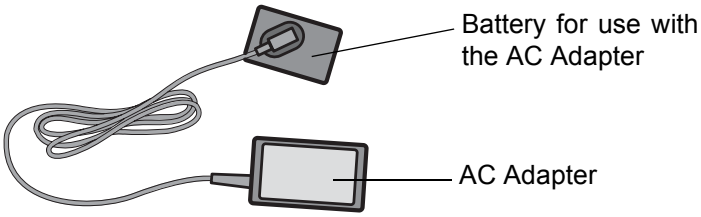
Using the AC Adapter

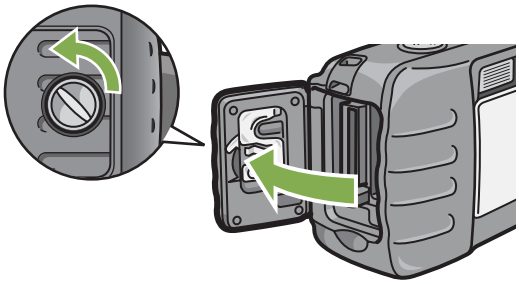
When shooting or viewing still images for a long time, or when connecting to your computer, use of the AC Adapter (sold separately) is recommended.



Setting up the AC Adapter

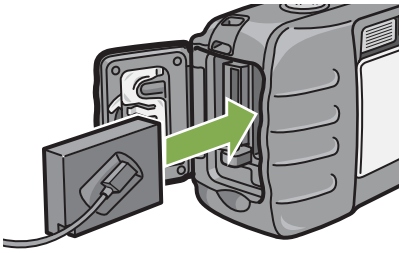
1 Make sure the camera's power is off.

2 Turn the battery/card cover's knob toward the ⊖ mark to open the cover.

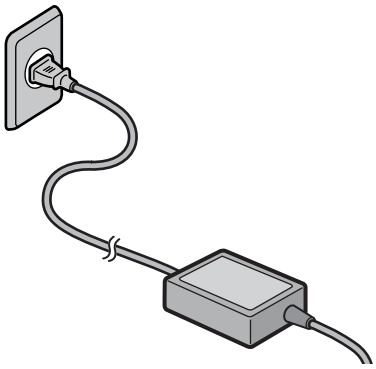


3 Insert the AC Adapter Battery.

Push the battery in until it is automatically locked by the yellow latch.



4 Plug the power cord into an outlet.



- Be sure to firmly attach cables and plug in cords.
- When you are not using the camera, unplug the AC Adapter from the camera and the power outlet.
- While in use, if you detach the AC Adapter or unplug it from the outlet, data may be lost.
- Use the AC adapter with the battery/card cover open.

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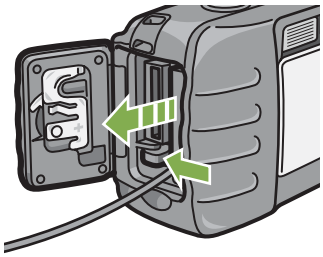
Removing the AC Adapter

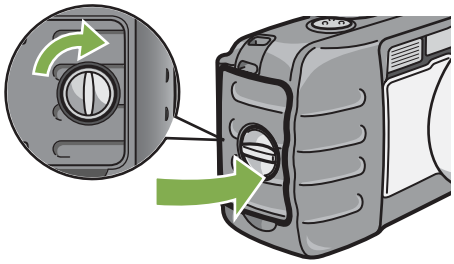
1. **Make sure the camera's power is off.**

2. **Unplug the power plug from the outlet.**

3. **Turn the battery/card cover's knob toward the ⊖ mark to open the cover.**



4. **Close the battery/card cover and turn the knob toward the ⊖ mark.**



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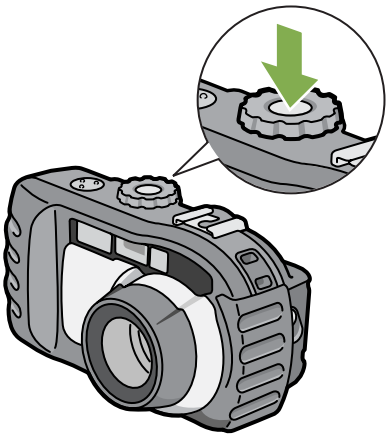
Turning the Power On/Off

The camera is switched On and Off as follows.

To Turn the Camera On

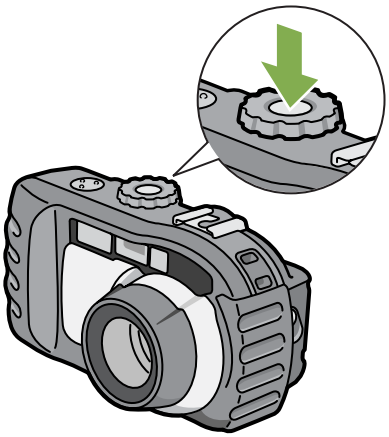
1 Press the power button.



The flash lamp and auto-focus lamp will alternate for several seconds.

To Turn the Camera Off

1 Press the power button.



Auto Power-off

- If the camera goes unused for a set period of time, it will automatically turn itself off to save power. To use the camera again, simply press the power switch.
- At time of purchase, the Auto Power-off function is set to one minute.
- The Auto Power-off function does not work when connected to your computer.

Power-Save Mode

- You can reduce the power consumption of the LCD Monitor and extend the life of your batteries.
- If you have activated Power-Save mode, the display on the LCD Monitor will turn off in Shooting Mode. When the LCD Monitor is dark, turn the SETUP Dial to check the Power-Save mode setting.

- For how to change the Auto Power-off time, see P.123.
- For how to set the Power-Save Mode, see P.128.

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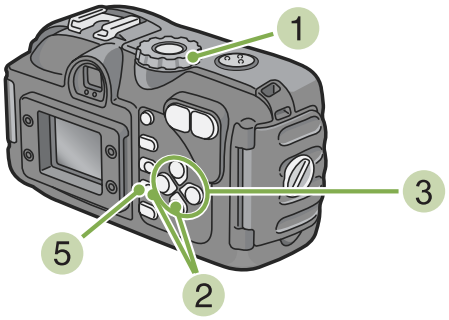
Setting the Date and Time (DATE SETTINGS)

You can take still images with the time or date stamped onto the picture.
Immediately after purchasing the camera, the date and time settings will not be correct, so be sure to set the date and time before using this feature.

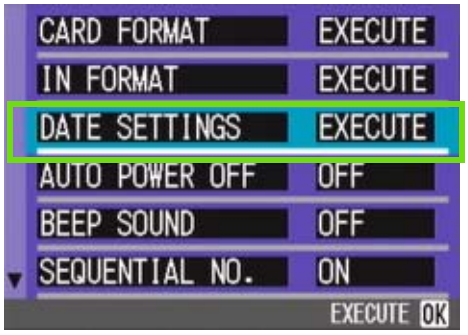
To set the date and time, follow the steps below.

Buttons used here

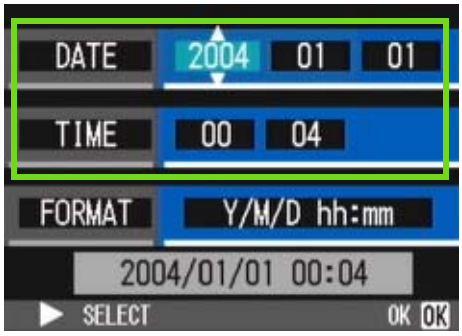


1 Make sure the power is on and then turn the Mode Dial to SETUP (Setup Mode).
The Setup screen is displayed on the LCD Monitor.

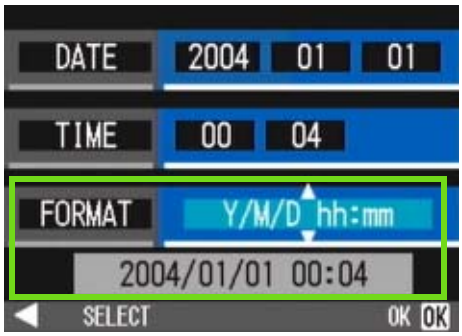
2 Press the ▼ button to select [DATE SETTINGS] and then press the OK button.



3 Set the year, month, date and time by pressing ▲▼◀▶.
If you hold down the ▲▼ buttons, you can increase/decrease the value quickly.



4 In [FORMAT], choose the Date and Time format.



5 Check the display on the bottom of the screen and then press the OK button.
Once you have set the date and time, the display returns to the Setup screen.

- If the batteries are removed for about two weeks, the date and time settings will be lost. These settings must be made again.
- Any other changes you made with the Setup mode and Shooting menu will also be lost.

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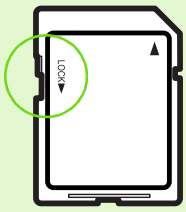
Inserting an SD Memory Card (Available in Stores)

You can record the still images and movies you have taken in the camera's internal memory or on an SD memory card (available in stores).

Protecting your images from being deleted

If you move the SD memory card's write-protection switch to LOCK, your still images cannot be accidentally erased, and the memory card cannot be formatted. If you return the switch to the former position, it is once again possible to erase images and format the card. It is recommended to switch to LOCK after recording important images.
Note that you cannot shoot images in the LOCK state because no data can be recorded on the card. Unlock the card when shooting.



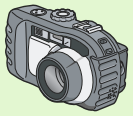
The internal memory capacity is 8MB.

For the number of images that can be stored on an SD memory card, see P.214.

Where images are recorded

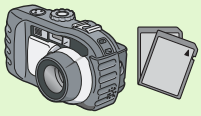
When no SD memory card is inserted, the camera records images in the internal memory; when an SD memory card is inserted, it records images on the memory card.

When no memory card is loaded



▶▶▶▶▶▶ Records to internal memory

When a memory card is loaded



▶▶▶ Records to the SD memory card

- When an SD memory card is loaded, no data is recorded in the internal memory even after the SD memory card becomes full.
- Take care not to get any dirt on the SD Memory Card's metal parts.

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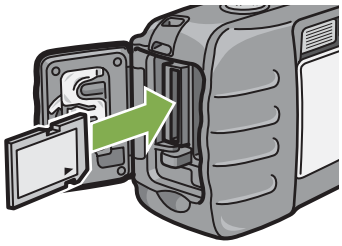
Inserting the SD Memory Card

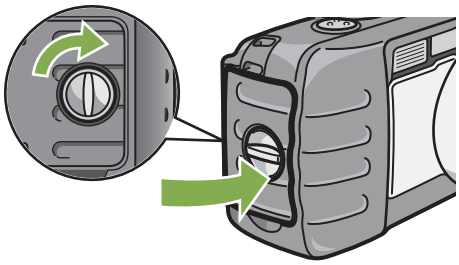
1. **Make sure the camera's power is off.**

2. **Turn the battery/card cover's knob toward the ⋐ mark to open the cover.**

3. **Make sure the card is facing the right way and then push the card all the way in until it clicks**



4. **Close the battery/card cover and turn the knob toward the ⋐ mark.**

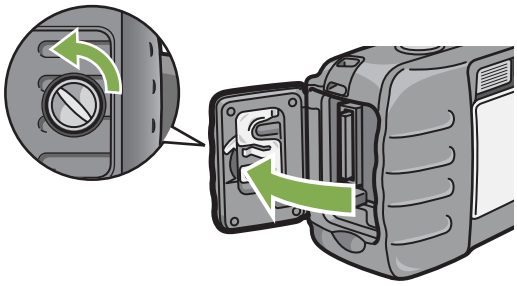


When loading the SD Memory Card, take care not to get any dirt on the card's metal parts.

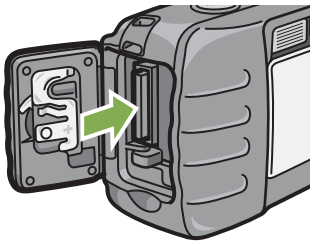
Removing the SD Memory Card

1. **Make sure the camera's power is off.**

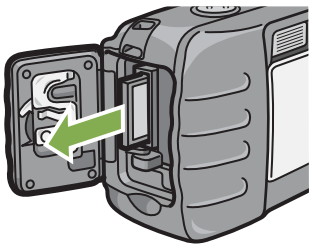
2. **Turn the battery/card cover's knob toward the ⋐ mark to open the cover.**



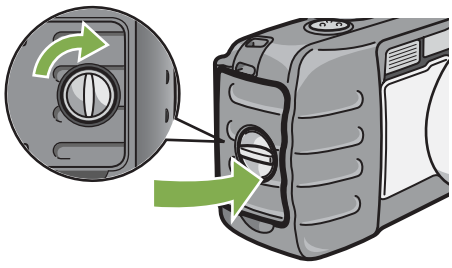
3. **Press the card gently and release it.**
   The card pops out just a little.



4. **Gently take the card out of the camera.**



5. **Close the battery/card cover and turn the knob toward the ⋐ mark.**



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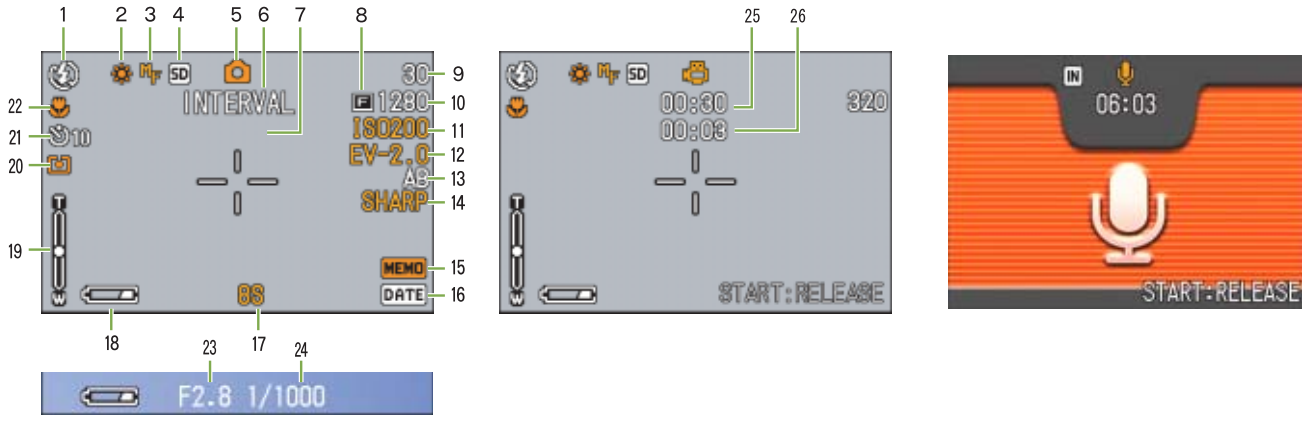
How to Use the LCD Monitor

The LCD Monitor can be used to view the subject when you are shooting an image, as well as for playing back movies and still images. Symbols and numbers indicating the camera's status and settings are displayed on the screen of the LCD Monitor.

Screen Examples when Shooting Pictures



(When the shutter button is half-pressed)

Still Image Mode

Movie Mode

Voice Memo Mode

	Symbol	Display Contents	Refer to
1. Flash	Flash Off	Current flash mode.	P.51
	Auto		
	Red-eye reduction		
	Forced Flash		
	Slow Synchro		
2. WHITE BALANCE	(No Display) AUTO	White Balance set value.	P.60
	Daylight		
	Overcast		
	Tungsten light		
	Fluorescent light		
	One-push		
3. FOCUS	(No Display) AF (Auto-Focus)	Focus set value.	P.75
	MF (Manual Focus)		
	Snapshot		
	(Infinite Telephoto)		
4. Recording Destination	IN	Recording to internal memory.	P.18
	SD	Recording to an SD Memory Card.	P.18

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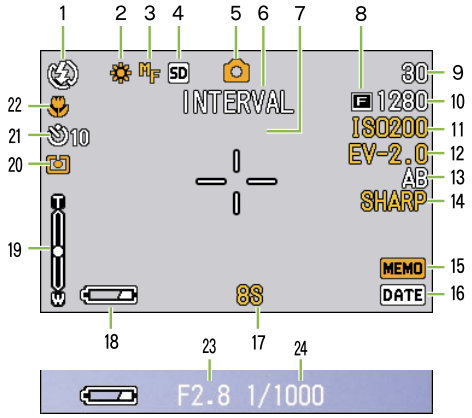

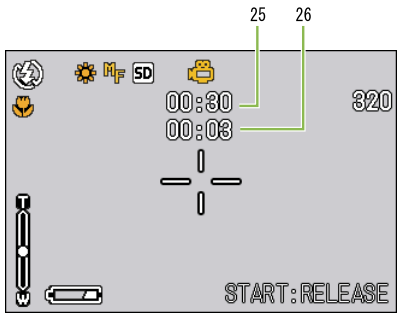

(When the shutter button is half-pressed)

Still Image Mode　　Movie Mode　　Voice Memo Mode

	Symbol	Display Contents	Refer to
5. Flash Mode Types * A musical note is displayed for an image shot with sound.		Still Image Shooting Mode.	P.36
		Movie Mode.	P.45
	CALS	CALS Mode.	-
		Multi-Shot Mode.	P.42
		S Multi-Shot Mode.	P.44
		M Multi-Shot Mode.	P.44
		PORTRAIT Mode.	P.39
		LANDSCAPE Mode.	P.39
		NIGHTSCAPE Mode.	P.39
		TEXT Mode.	P.39
		HIGH SENSITIVITY Mode.	P.39
		Voice Memo Mode.	P.49
6. INTERVAL	Interval	Interval Shooting.	P.83
7. Camera Shake		Indicates camera shake. Hold the camera still and shoot again.	P.34
8. Picture Quality	F Fine	Picture Quality setting.	P.71
	N Normal		
9. Remaining Number of Still Images	(Value)	Number of photos that can be taken with the current settings.	-
10. Image Size	(Setting Value)	Image Size setting.	P.71
11. ISO SETTING	(Setting Value)	ISO Speed set value.	P.65
12. EXPOSURE COMP	(Setting Value)	Exposure compensation set value.	P.57
13. AUTO BRACKET	AB	Auto-Bracket Shooting.	P.80
	WB-BKT	White Balance Bracket.	P.69
14. SHARPNESS	SOFT	Sharpness (edge quality) set value.	P.79
	(No display) Standard		
	SHARP		

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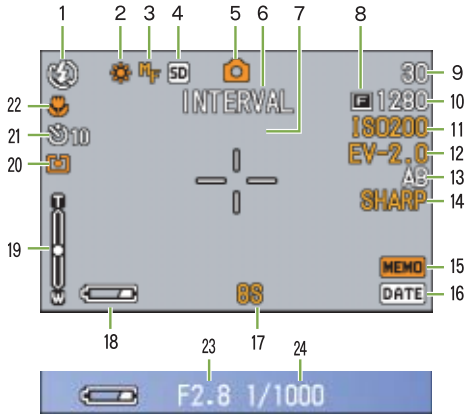

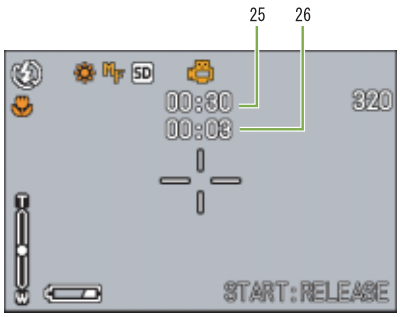

(When the shutter button is half-pressed)

Still Image Mode　　Movie Mode　　Voice Memo Mode

	Symbol	Display Contents	Refer to
15.Camera Memo	MEMO	Shooting in the Camera Memo Mode.	P.180
16. Date/Time	DATE	Date Imprint mode.	P.85
17. TIME EXPOSURE	(Setting Value)	Indicates exposure time.	P.82
18. Battery	Insufficient Capacity	Remaining Battery Power.	P.11
19. Zoom Bar	-	Zoom status.	P.46
20. PHOTOMETRY	(No Display) Multi	Light Metering Method.	P.77
	Center		
	Spot		
21. Self-timer	10 After 10 Seconds	Self-Timer Shooting.	P.53
	2 After 2 Seconds		
22. Macro Shooting		Macro Shooting.	P.48
23. Aperture Value	-	Aperture size.	-
24. Shutter Speed	-	Shutter speed.	-
25. Remaining Recording Time	(Value)	Length of time remaining for shooting with the current settings.	-
26. Recording Time	(Value)	Amount of time recorded.	-

- The following symbols and corresponding numerals are displayed in orange if the initial setting is changed:
  - WHITE BALANCE
  - FOCUS
  - ISO SETTING
  - EXPOSURE COMP
  - SHARPNESS
  - TIME EXPOSURE
  - PHOTOMETRY
- When shooting in particularly bright places, you may fail in preventing overexposure. In that case, the [!AE] symbol will be displayed.
- The LCD monitor may display messages to inform you of operational instructions or the camera status while in use.

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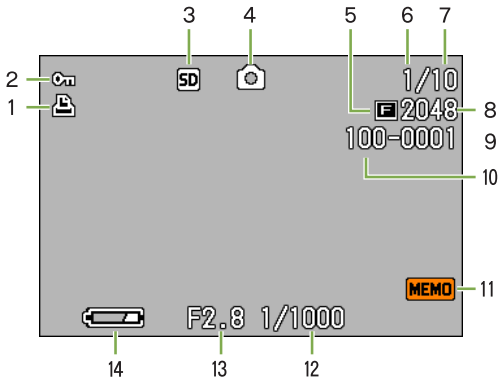
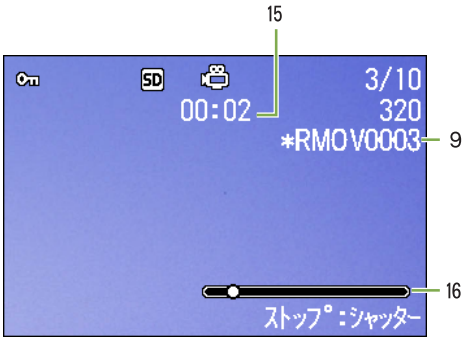
The Screen During Playback



Still Image Mode



Movie Mode

Voice Memo Mode

	Symbol	Display Contents	Refer to
1. PRINT		DPOF specified.	P.116
2. PROTECT		Protected status.	P.111
3. Playback data source	IN	Indicates playback from internal memory.	P.91
	SD	Indicates playback from an SD Memory Card.	P.91
4. Mode Types * A musical note is displayed for an image shot with sound.		Still Image Mode.	P.91
		Movie Mode.	P.93
		Voice Memo Mode.	P.94
5. Picture Quality	F Fine	Picture Quality setting.	P.71
	N Normal		
6. Number of Playback Files		The number of the file being played back.	-
7. Total number of files		Total number of files recorded.	-
8. Image Size	(Setting Value)	Image size.	P.71
9. Folder No	-	Number of the folder in which the file is saved.	-
10. File No	-	Number of the file being played back. An asterisk (*) symbol precedes the name of a file other than DCF basic files.	-
11. Camera Memo	MEMO	Shooting in the Camera Memo Mode.	-
12. Shutter Speed	-	Shutter speed.	-
13. Aperture Value	-	Aperture size.	-
14. Battery	Insufficient Capacity	Remaining battery level.	P.11
15. Playback Time	(Time)	Movie (movie/sound) playback time.	-
16. Indicator		Elapsed time of movie (movie/sound) playback.	-

The LCD monitor may display messages to inform you of operational instructions or the camera status while in use.

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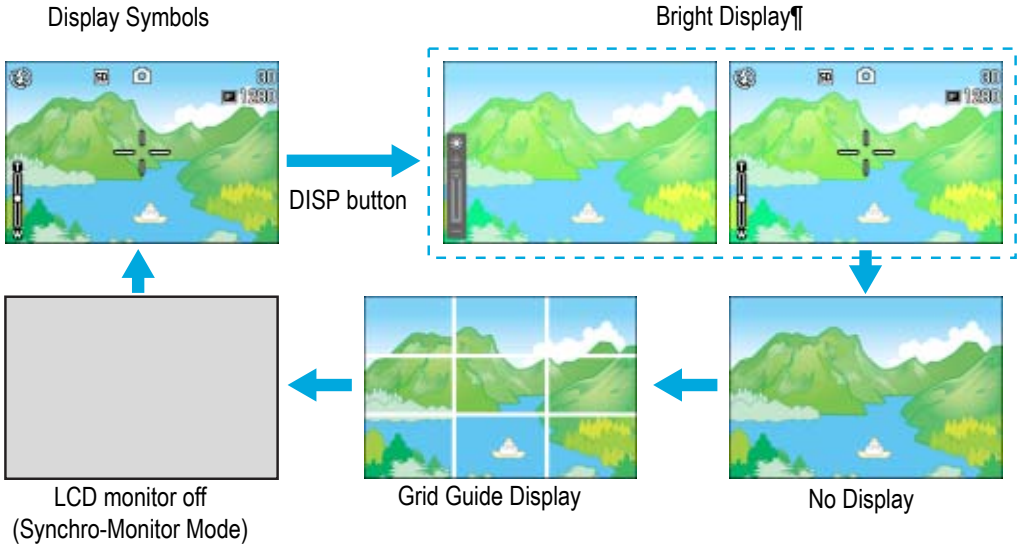
Switching the Screen Display

If you press DISP, you can change the screen display mode, such as switching between display/no display of symbols, etc.

When Shooting

Pressing the DISP button changes the LCD monitor display.



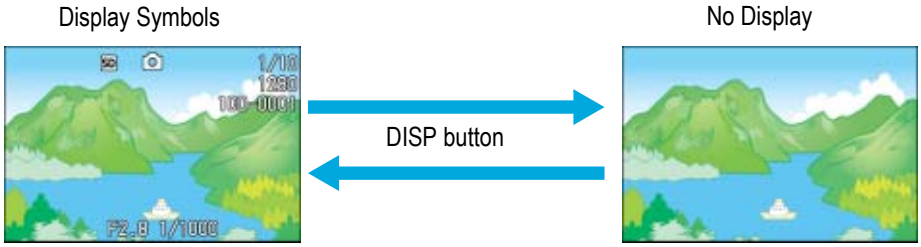
- In Synchro-Monitor Mode, with the exception of the following operations, the LCD Monitor is turned off (No Display). This is a useful mode to reduce power consumption.

Half-press the shutter button.	The LCD Monitor is tuned on and you can confirm composition. After you finish shooting with Full-Press, the LCD Monitor will automatically turn off.
Press the ⮌ (Quick Review) button.	You can view the photo you just took (see P.88). By pressing the ⮌ (Quick Review) button again, you can turn the LCD Monitor off.
Press the MENU button.	The LCD Monitor Display is turned on and you can make various settings for shooting (see P.28). By pressing the MENU button again, you can turn the LCD Monitor off.
ADJ. Button.	The LCD Monitor Display is turned on and you can make settings for exposure control, white balance, and ISO sensitivity (see P.55, 58, and 63). Pressing the OK button turns the LCD Monitor off.

- You cannot turn the LCD Monitor Display on/off by pressing ⏲ (Self-timer), ϟ (Flash) or ❀ (Macro) buttons.
- Turning the LCD Monitor Display Off conserves battery life. In this case, shoot using just the Viewfinder.
- In Voice Memo Mode, you can turn the LCD Monitor Display off by pressing the DISP button.

When the No Display or Grid Guide Display is on, symbols will appear for a few seconds right after you press the Self-timer, Flash or Macro button.

When Playing Back



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Button Functions

The following table summarizes the functions of the camera's buttons.

- Power Button, see P.16.
- Mode Dial, see P.10.
- Shutter Button, see P.35.

Button	Shooting Mode	Playback Mode	Menu display
(Delete)/ (Self-timer) Button	If you press the button in Shooting Mode, self-timer mode is activated and you can take photos using the self-timer (see P.53).	If you press the button during Playback Mode, you can delete the still image or movie that is displayed on the LCD Monitor (see P.101).	———
▲ Button	———	In Voice Playback Mode, press the button to adjust the sound volume (see P.93, P.95).	———
▼ (: Macro) Button	You can take close-ups (see P.48).	In Voice Playback Mode, press the button to adjust the sound volume (see P.93, P.95).	———
◀ (: Quick Review) Button	The last still image you took is displayed (see P.88).	Displays the previous still image or movie (see P.91).	———
▶ (: Flash) Button	Switches between Flash/Flash Off and other Modes (see P.51).	Displays the next still image or movie (see P.91).	———
▲▼◀▶ Button	———	Displays the still image (or movie) on the right, left, above or below in Thumbnail Display mode. (see P.96)	Moves the frame left, right, up and down (see P.25).
(Wide-angle)/ (Thumbnail Display) Button	If you press the button in Shooting Mode, you can shoot with the wide-angle (see P.46).	If you press the button in Playback Mode, the LCD Monitor display is split, allowing you to see sets of still images at one glance (6 images at once) (see P.96).	———
(Telephoto)/ (Enlarged View) Button	If you press the button in Shooting Mode, you can shoot with the telephoto zoom (see P.46).	If you press the button in Playback Mode, image is displayed on the LCD Monitor up to 3.4 times larger (see P.97).	———
DISP Button	Switches the display of symbols on the LCD Monitor (see P.24).		
OK Button	This is used for operating menus on the LCD monitor (see P.28).		
MENU Button	This button is used for setting the various shooting methods (see P.28), or downloading still images onto your computer (see P.141).		
ADJ. Button	This button is used to make settings for exposure control, white balance, and ISO sensitivity, with minimum operations (see P.56).		

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The Basics of the Shooting Menu/Playback Menu

	Operation
To display the menu:	**1 Turn the Mode Dial to 📷 (Shooting Mode) or ▶ (Playback Mode).** **2 Press the MENU button.** The menu appears. On the menu screen, you can move between screens by pressing the ◀▶ buttons and between items by pressing the ▲▼ buttons.
To switch between menu screens (Shooting Menu):	**1 Press the ◀▶ buttons.** You can switch the menu screen from [1] to [3].
To select an item:	**1 Press the ▲▼ buttons to select the desired item.** **2 Press the OK button.**
To select a setting value (shooting menu):	**1 Press the ▲▼ buttons to select the desired item.** **2 Press the OK button.**
To implement a confirmation screen (shooting menu):	**1 Press the ▶ button to select [YES].** **2 Press the OK button.**
To select an item you want to implement (playback menu):	**1 Press the ▲▼ buttons to select the item you want to implement.** **2 Press the OK button.**
To return to the shooting screen/playback screen:	**1 Press the MENU button.**

- On the setting selection screen, the item with the orange ■ displayed is the current setting. Even if you change the setting by moving the blue indicator, until you finalize the setting the orange indicator remains to show what the previous setting was.
- The menu screen sequence is slightly different depending on the item for which the setting change is being made. For a detailed explanation of each of the items, see Section 2 or Section 5.

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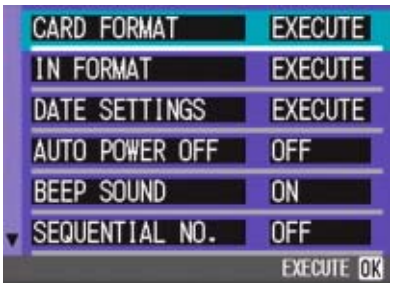
The Basics of the Setup Screen

	Operation
To display the Setup Screen:	**1 Turn the Mode Dial to SETUP (Setup Mode).** The Setup Screen is displayed. 
To select an item:	**1 Press the ▲▼ buttons to select the desired item.**
To select a setting value:	**1 Press the ◀▶ buttons to select the desired item.**
When you have selected [EXECUTE]:	**1 Press the OK button.** **2 The following screen is displayed, so make the necessary settings.**
To close the Setup Screen:	**1 Switch the Mode Dial to another mode.**

The sequence of operations is slightly different depending on the item for which the setting change is being made. For a detailed explanation of each of the items, see Section 6 .

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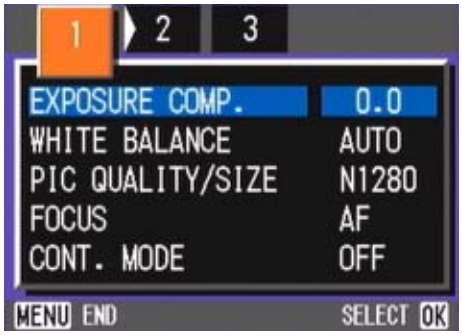
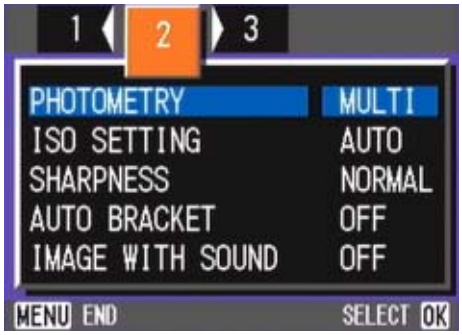
Screens

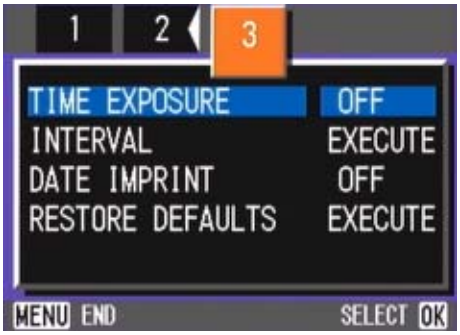
Default values set when you purchased your camera are surrounded by brackets in the selection options.

Shooting Menu (Shooting Mode)

In Shooting Mode, display by pressing the MENU button.
The Shooting menu is divided into three screens. You can select a screen with the ◀▶ buttons.







Setting	Option	Refer to
EXPOSURE COMP.	-2.0 to +2.0	P.57
WHITE BALANCE	[AUTO]/ (Daylight)/ (Overcast)/ (Tungsten light)/ (Fluorescent light)/ Ⓜ (One Push)	P.60
PIC QUALITY/SIZE	F2048/N2048/F1280/[N1280]/N640	P.71
FOCUS	[AF]/MF/SNAP/∝	P.75
CONT. MODE	[OFF]/CONT/SCONT/MCONT	P.42
PHOTOMETRY	[MULTI]/CENTRE/SPOT	P.77
ISO SETTING	[AUTO]/25/200/400/800	P.65
SHARPNESS	SHARP/[NORMAL]/SOFT	P.79
AUTO BRACKET	ON/[OFF]/WB-BKT	P.80
IMAGE WITH SOUND	ON/[OFF]	P.54
TIME EXPOSURE	[OFF]/1/2/4/8 seconds	P.82
INTERVAL	————	P.83
DATE IMPRINT	[Off]/Date/Date and Time	P.85
RESTORE DEFAULTS	————	P.86

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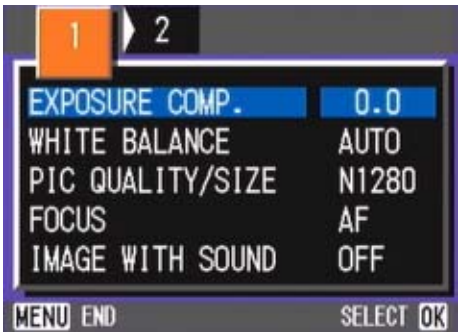
Shooting Menu (Movie Mode)

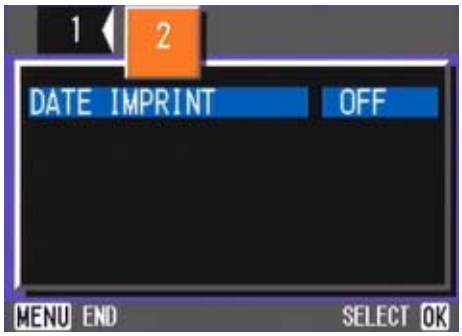
In Movie Mode, display by pressing the MENU button.

Setting	Option	Refer to
MOVIE SIZE	[320]/160	P.71
WHITE BALANCE	[AUTO]/ ☀ (Daylight)/ ☁ (Overcast)/ 💡 (Tungsten light)/ 💡 (Fluorescent light)/ Ⓜ (One Push)	P.60
FOCUS	[AF]/MF/SNAP/∞	P.75

Shooting Menu (Scene Mode, except in Text Mode)

In Scene Mode, display by pressing the MENU button.
The Shooting menu is divided into two screens. You can select a screen with the ◀▶ buttons.





Setting	Option	Refer to
EXPOSURE COMP.	-2.0 to +2.0	P.57
WHITE BALANCE	[AUTO]/ ☀ (Daylight)/ ☁ (Overcast)/ 💡 (Tungsten light)/ 💡 (Fluorescent light)/ Ⓜ (One Push)	P.60
PIC QUALITY/SIZE	F2048/N2048/F1280/[N1280]/N640	P.71
FOCUS	[AF]/SNAP/∞ (except the Landscape Mode)	P.75
IMAGE WITH SOUND	ON/[OFF]	P.54
DATE IMPRINT	[OFF]/DATE/TIME	P.85

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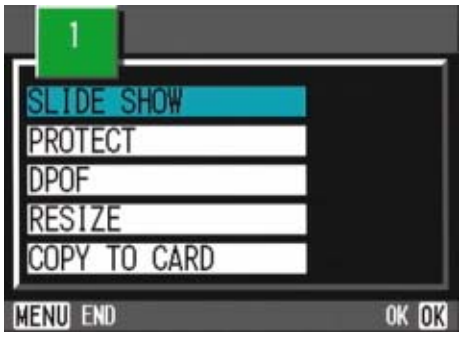
Shooting Menu (Text Mode)

In Text Mode, display by pressing the MENU button.

Setting	Option	Refer to
DENSITY	DEEP/[NORMAL]/LIGHT	P.67
SIZE	2048/[1280]	P.73
IMAGE WITH SOUND	ON/[OFF]	P.54
DATE IMPRINT	[OFF]/DATE/TIME	P.85

Playback Menu

In Playback Mode, display by pressing the MENU button.



Setting	Option	Refer to
SLIDE SHOW	ON/[OFF]	P.99
PROTECT	Select/Release 1 FILE/ Select/Release ALL FILES	P.111
DPOF	Select/Release 1 FILE/ Select/Release ALL FILES	P.116
RESIZE	1280 / 640	P.119
COPY TO CARD	————	P.115

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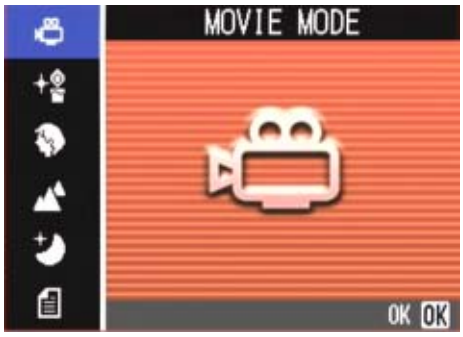
Scene Selection Screen (Scene Mode)

In Scene Mode, the screen is displayed when you select a scene.



Symbol	Setting Content	Refer to
	MOVIE	P.39
	HIGH SENSITIVITY	P.39
	PORTRAIT	P.39
	LANDSCAPE	P.39
	NIGHTSCAPE	P.39
	TEXT MODE	P.39

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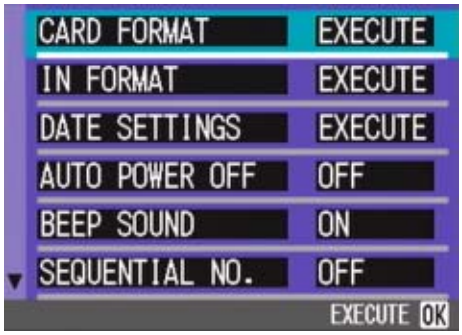
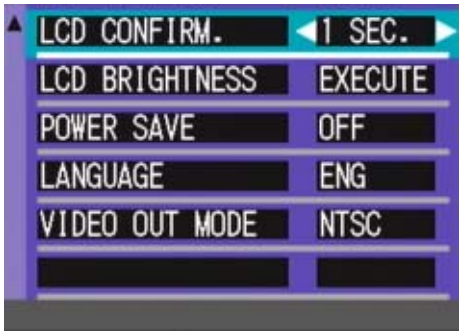
Setup Screen (Setup Mode)

This screen is displayed in Setup Mode.
The Setup menu is divided into two screens. You can select a screen with the ▲▼ buttons.





Setting	Option	Refer to
CARD FORMAT	————	P.121
IN FORMAT	————	P.122
DATE SETTINGS	————	P.17
AUTO POWER OFF	OFF/[1]/5/30 Minutes	P.123
BEEP SOUND	[ON]/OFF	P.124
SEQUENTIAL NO.	ON/[OFF]	P.125
LCD CONFIRM.	OFF/[1]/2/3 Seconds	P.126
LCD BRIGHTNESS	————	P.127
POWER SAVE	ON/[OFF]	P.128
LANGUAGE	JPN/[ENG]/FRE/GER/ITA/ESP/CHI	P.129
VIDEO OUT MODE	[NTSC]/PAL	P.130

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Section 2 Basic Shooting

The basics of shooting are explained here, from how to hold your camera to how to shoot still images and movies.

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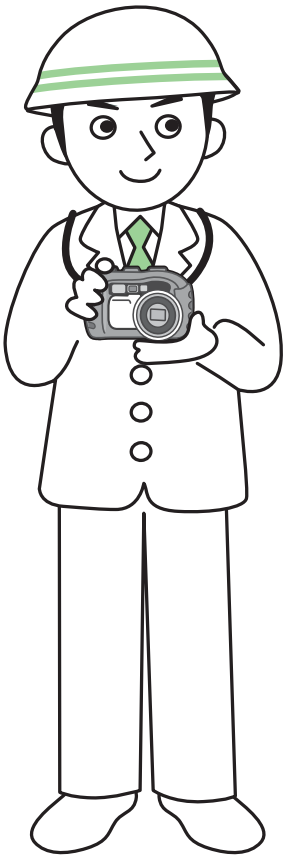
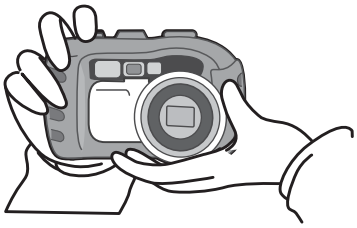
How to Hold the Camera

If the camera moves when you press the shutter button, the still image might not come out clearly (due to camera shake). The mark displayed on the LCD monitor indicates that camera shake should be avoided under the current shooting condition. Hold the camera as illustrated below for best results.

1 Hold the camera with both hands and lightly press both elbows against your body.



2 Put your finger on the shutter button.



- Be careful when you are shooting not to get a finger, your hair, or the strap in front of the lens or the flash.
- To prevent camera shake, hold the camera securely with both hands when you shoot or use a tripod.

Consider using a tripod to prevent camera shake in the following situations:
- When shooting in a dark place, if you do not use the flash or if you use the Slow Synchro mode.
- When you shoot with the zoom.

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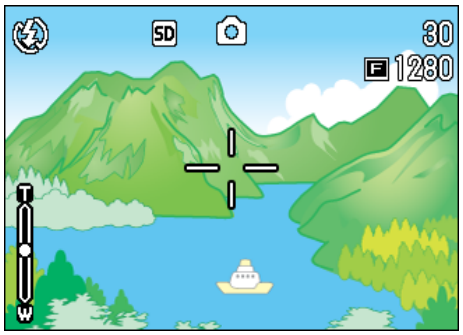
How to Focus

The area displayed on the LCD Monitor is shot as a still image or a movie. When adjusting focus, press the shutter button halfway (half-press).
To adjust focus, follow the steps below.

1 Point the lens toward the subject you want to shoot.

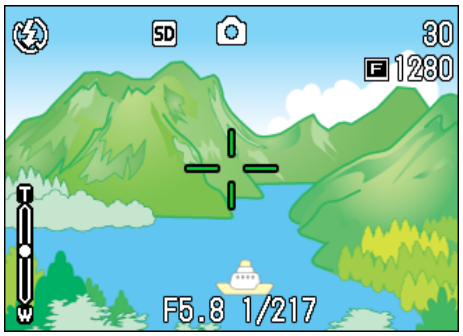
2 Compose the picture on the LCD Monitor.

3 The focus is set at the center of the screen, so use the screen to center your subject.

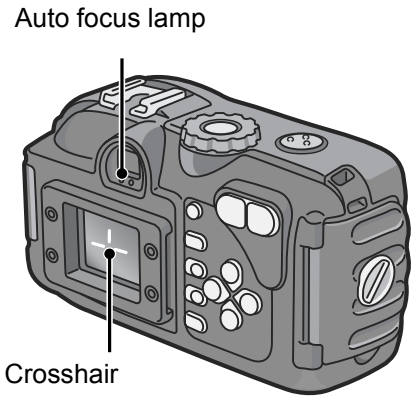


4 Half-press the shutter button.

The f-stop (aperture size) and shutter speed are displayed in the bottom part of the screen, and the camera focuses.
Once the shot is in focus, the exposure and white balance are fixed and the crosshair in the center of the LCD Monitor turns green, as does the auto-focus lamp in the lower left of the Viewfinder. Check one of these to make sure the subject is in focus.



If the camera cannot automatically focus, the crosshairs in the center of the LCD monitor turn red and the auto-focus lamp in the lower left of the viewfinder blinks in green.



	Color of crosshairs	Auto focus lamp	
Before focusing	White	○	Off
Focused	Green	●	On (green)
Failed to focus	Red	✳	Blink (green)

- When the grid appears, the crosshairs do not appear in the middle of the LCD monitor. With the auto focus lamp, check that the shot is in focus.
- There is another shooting method, which is to fully press the shutter once, without using the half-press method. Full-press shooting is good for capturing the moment. However, you cannot check that your shot is in focus while shooting. (see P.36)
- You can use the battery for a longer period of time by using the viewfinder and shooting in power-save mode (see P.128). In this mode, however, you cannot check the focus on the LCD monitor. Instead, observe the auto focus lamp (in the lower left of the viewfinder), which lights up in green when the shot is in focus. The range visible through the viewfinder and that being shot may deviate a little bit, depending on the shooting distance. To check the focusing or the shooting range accurately before shooting, please use the LCD monitor.

If the subject is not centered on your composition, see P.38.

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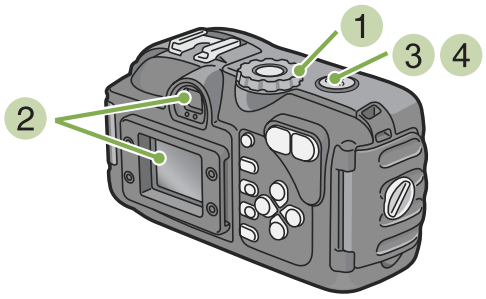
Shooting Still Images

Use the Shooting Mode to take your still images.
There are two methods of using the shutter button, pressing the shutter in two stages (half-press) and pressing it all the way down at once (full-press). When you use half-press, you can confirm that your shot is in focus on the LCD Monitor. When you want to capture the moment, full-press is convenient.

• For how to shoot with Zoom, see P.46.
• For how to shoot Close-ups, see P.48.

Check the Focus and Shoot (Half-press)

Buttons used here

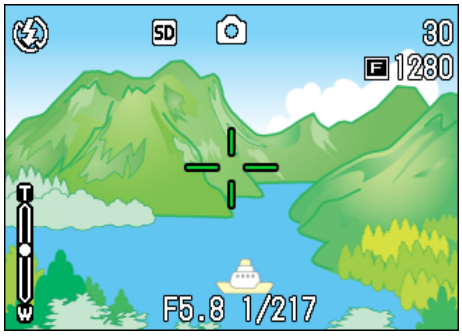


1 Turn the Mode Dial to (Shooting Mode).

2 Compose your shot either by looking through the Viewfinder or at the LCD Monitor.

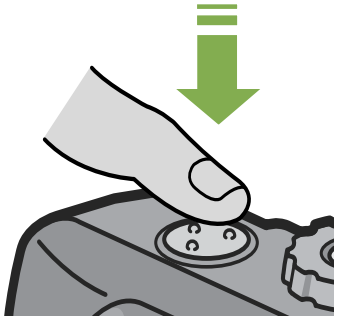
3 Put the subject of your photo right in the center and press the shutter button halfway.

The f-stop (aperture size) and shutter speed are displayed in the bottom part of the screen, and the camera focuses.
Once the shot is in focus, the exposure and white balance are fixed and the crosshair in the center of the LCD Monitor turns green, as does the auto-focus lamp in the lower left of the Viewfinder. Check one of these to make sure the subject is in focus.



4 Gently press the shutter button all the way.

The still image you have taken freezes for a moment on the LCD Monitor and is recorded.



When the image confirmation time is set to OFF, the still image you have taken does not appear on the LCD Monitor. See P.126.

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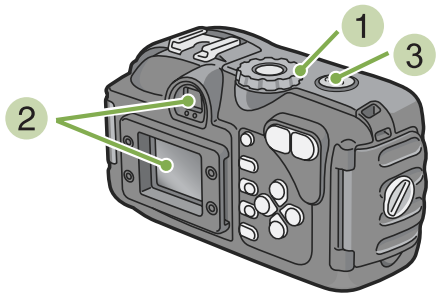
Capture the Moment Shooting (Full-press)

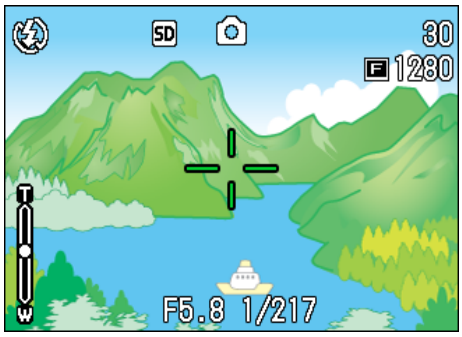
Buttons used here



1 Turn the Mode Dial to (Shooting Mode).

2 Compose your shot either by looking through the Viewfinder or at the LCD Monitor.

3 Put the subject of your photo right in the center and press the shutter button all the way.



After the camera focuses automatically, the still image is taken and recorded.

Certain subjects are hard to bring into focus:

It may be impossible to bring the following subjects into focus.
- Subjects lacking contrast (the sky, a white wall, the hood of a car, etc.)
- Flat two-dimensional objects with only horizontal lines and no significant protrusions.
- Quickly moving objects.
- Things in poorly lit places.
- Areas with strong backlighting, or reflections.
- Things that flicker, such as fluorescent lights.

When you want to shoot subjects like this, first focus on an object the same distance as your subject and then shoot. (see P.38)
When shooting in focus-poor conditions, use the Half-Press method.
If you find it difficult to focus the camera, it is recommended to half press the shutter button before shooting. Depending on the circumstances, also use the flash and focus lock.

If it is difficult to focus the camera, see P.217

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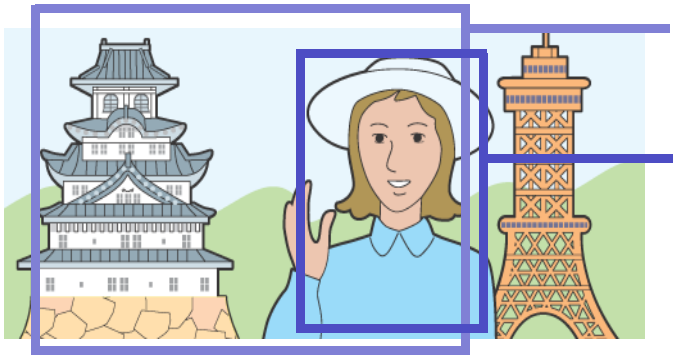
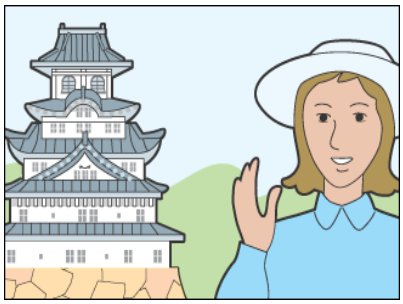
When the Subject is not Centered on Your Composition (Focus Lock)

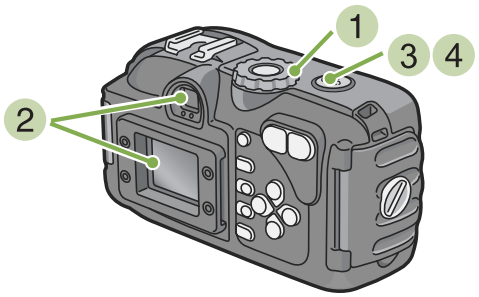
When the subject of your composition is not centered, you can compose your picture after setting the focus and then shoot. This method is called "Focus-Lock."
Example: Taking a photograph of the castle in the background with the camera focused on a person in front



Final still image



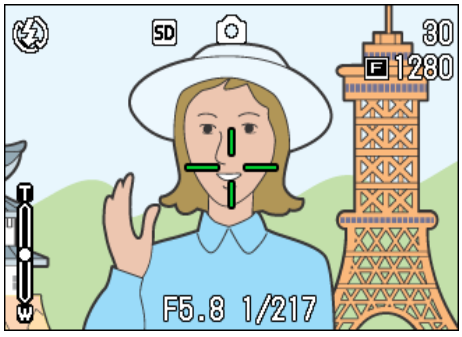
Buttons used here



1 Turn the Mode Dial to (Shooting Mode).

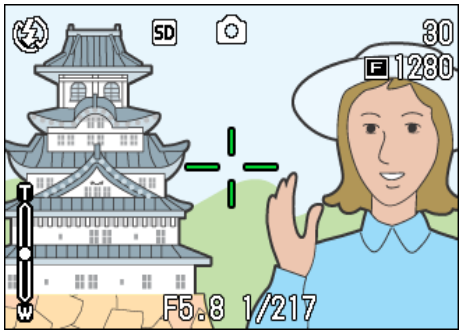
2 Put the subject of your photo right in the center of the LCD Monitor or the Viewfinder and press the shutter button halfway.

The f-stop (aperture size) and shutter speed are displayed in the bottom part of the screen, and the camera focuses.



Once the shot is in focus, the exposure and white balance are fixed and the crosshair in the center of the LCD Monitor turns green, as does the auto-focus lamp in the lower left of the Viewfinder. Check one of these to make sure the subject is in focus.

3 With the shutter half-pressed, compose your shot.



4 Gently press the shutter button all the way.

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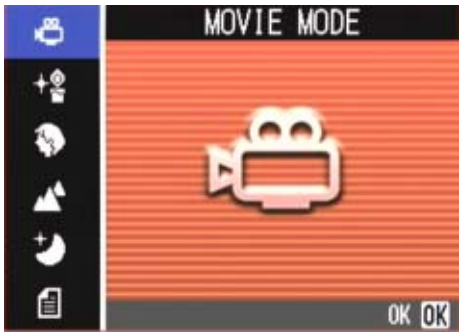
Shooting with Scenery-Matching

If you use the Scene Mode, you can select from among six types of shooting modes and shoot automatically with optimal settings for the scene.
You can select a mode from the following six types, in Scene Mode.

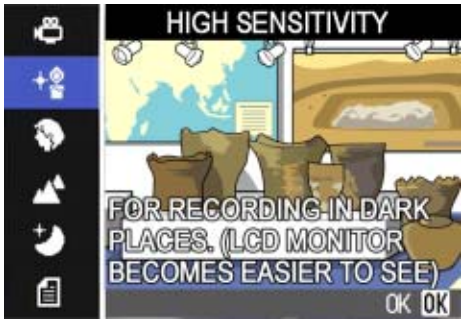
MOVIE

Use when shooting movies.



HIGH SENSITIVITY

This is best for taking pictures in dimly lit places.



PORTRAIT

This is best for taking pictures of people.

LANDSCAPE

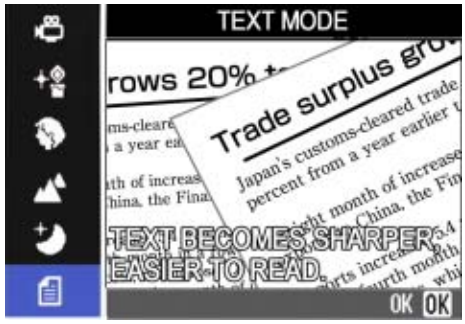
This is best for scenery with a lot of blue sky or greenery.

NIGHTSCAPE

Use when shooting night scenes. You can also shoot with people in the frame.

TEXT MODE

This is best for black and white subjects like printed documents. These still images are recorded as TIFF format files.



- You can set White Balance while in Scene Mode as well (see P.60), but it may not be possible to get the effect that matches a scene.
- Manual focus cannot be used in Scene Mode.
- In Scene Mode, those pictures displayed in the background of the explanation screen are just for effect.

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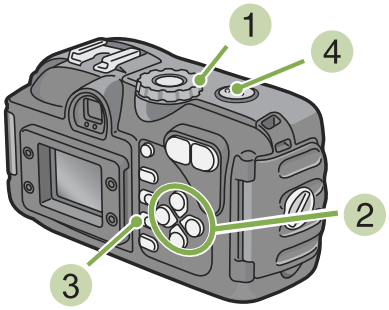
To select a Scene Mode, follow the steps below.

Buttons used here



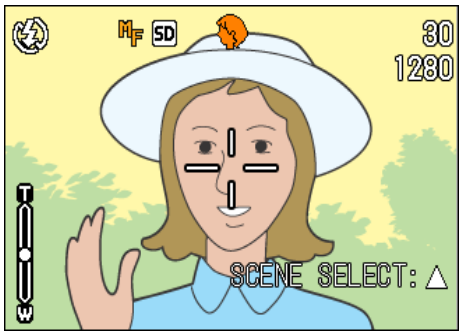
1 Turn the Mode Dial to SCENE (Scene Mode).

The scene-selection screen appears.

2 Press the ▲▼ buttons to select the mode you want to use.

3 Press the OK button.

The camera switches to the Scene Mode shooting screen and the symbol of the Mode you selected is displayed in the top of the screen.



If you press the ▲ button, the scene selection screen is displayed and you can change the mode.
If you press MENU button, the shooting menu appears.

4 Press the shutter release button.

For how to shoot movies in the Movie Mode, see P.45.

If you return to Scene Mode again, the scene-selection screen is displayed again.

- When you want to change PIC QUALITY/SIZE in PORTRAIT/SPORTS/LANDSCAPE/NIGHTSCAPE/HIGH SENSITIVITY Modes, see P.71.
- To make changes to density in TEXT Mode, see P.67.
- To change the focus setting to manual or other, see P.75.
- To make changes to the White Balance settings, see P.60.
- To shoot a movie, see P.45

TIFF File
An image shot in TEXT Mode is stored in the TIFF file format. A TIFF file is smaller than a JPEG file in TEXT Mode only.

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Combination of Scene Mode and Function

Depending on the Scene Mode, the way functions work may differ from when in normal shooting mode. Refer to the table below.

Mode Name	Flash	Macro Shooting
MOVIE	Fixed on Flash Offf	Enabled
HIGH SENSITIVITY	Fixed on Flash Off	Enabled
PORTRAIT	Initial setting: Flash Off	Disabled
LANDSCAPE	Fixed on Flash Off	Disabled
NIGHTSCAPE	Forced flash is disabled	Disabled
	Initial setting: Auto	
TEXT MODE	Fixed on Flash Off	Enabled

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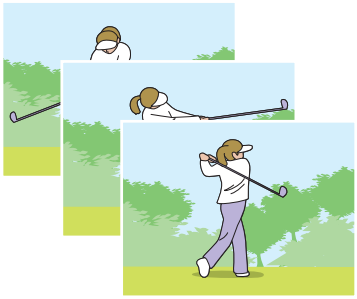
Shooting with Multi-Shot

**If you switch to Multi-Shot, you can shoot consecutive images.
This is convenient when you want to capture the moment.
There are three ways to shoot Multi-Shots, "CONT", "SCONT" and "MCONT".**

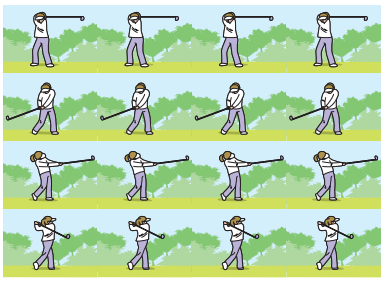
CONT (Multi-Shot)

As long as you hold the shutter button down, pictures continue to be taken.
The still images are recorded one file each, just as in normal shooting.



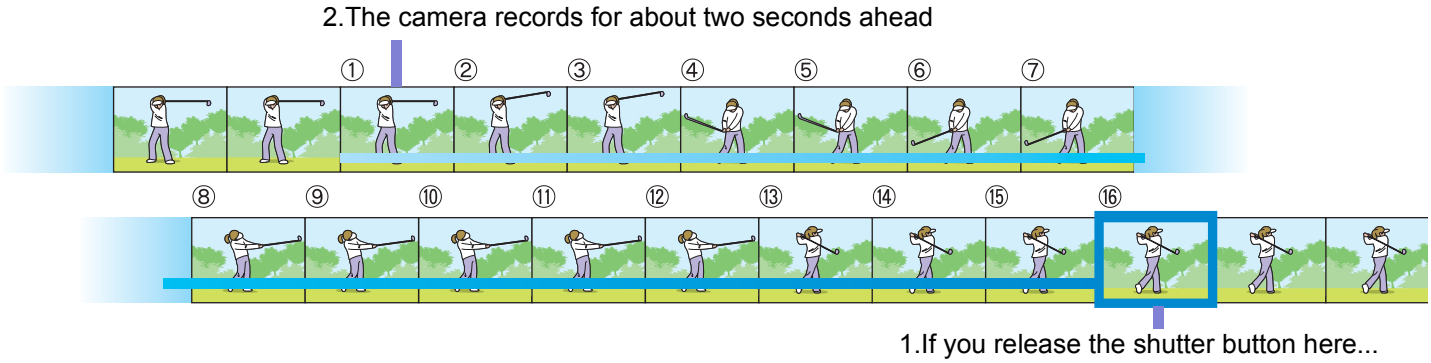
SCONT (S Multi-Shot)

Shoots a continuous stream of images.
With just one full-press of the shutter, you can take 16 consecutive shots at 1/7.5 of a second intervals (a span of about two seconds).
The 16 still images are grouped together as a set and are recorded as one image file.



MCONT (M Multi-Shot)

The camera memorizes the scene while you hold the Shutter Button down, and once you release it the previous two seconds of shots are recorded. The 16 still images are grouped together as a set and are recorded as one image file.
If you release the shutter button within two seconds from the time you first pressed it, the shots from the time you pressed the shutter until you released it will be recorded (the number of consecutive shots will be less than 16).



- The maximum number of images that can be shot in Multi-Shot mode depends on the image size and picture quality settings as follows:

F2048	N2048	F1280	N1280	N640
3	5	6	6	9

- While shooting with Multi-Shot, the LCD Monitor display turns off. Compose your picture and secure it using a tripod, or use the Viewfinder.
- When shooting in the S Multi-Shot or M Multi-Shot, the Picture Quality Mode and the Image Size Mode can be set to either F2048 or N2048. In the CALS mode, however, the Picture Quality Mode and the Image Size of S Multi-Shot and M Multi-Shot are always set to N2048.
- When using the Multi-Shot mode (except for S Multi-Shot and M Multi-Shot), shooting with sounds is not possible.

For how to view an S Multi-Shot or M Multi-Shot still image in Enlarged Display mode, see P.97

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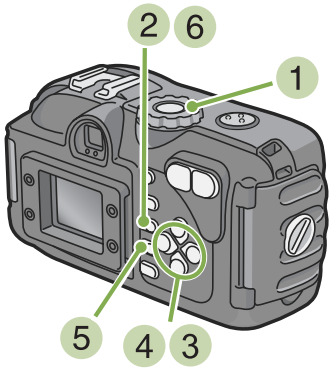
Making Multi-Shot Settings (CONT. MODE)

To make Multi-Shot settings, follow the steps below.

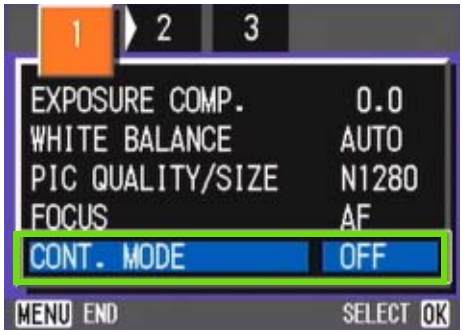
Buttons used here



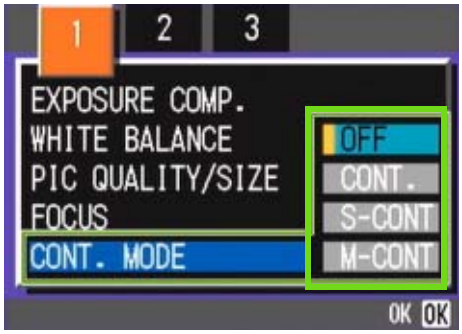
1 Turn the Mode Dial to (Shooting Mode).

2 Press the MENU button.
The Shooting menu is displayed.

3 Press the ▲▼ buttons to select [CONT. MODE] and press the OK button.

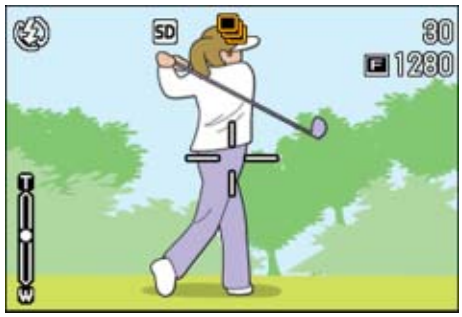


4 Press the ▲▼ buttons to select [CONT], [S-CONT], or [M-CONT].



5 Press the OK button.

6 Press the MENU button.
The Shooting Menu closes and the symbol is displayed above the screen.



	Multi-Shot
	S Multi-Shot
	M Multi-Shot

- When you want to return to normal, single-shot shooting, follow steps 1 through 3, select [OFF] in step 4 and press the OK button.
- The flash cannot be used.

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Shooting with Multi-Shot

Buttons used here

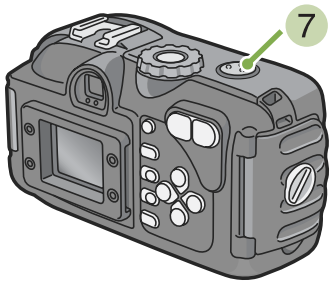
Operation continued from the previous page:

7 Compose your picture, then press and hold the shutter button.
As long as you hold the shutter button down, pictures continue to be taken.

8 As soon as you release the shutter button, shooting stops.

Shooting with S Multi-Shot

Buttons used here



Operation continued from the previous page:

7 Compose your picture, then press the shutter button.
16 pictures are taken automatically.

Shooting with M Multi-Shot

Buttons used here

Operation continued from the previous page:

7 Compose your picture, then press and hold the shutter button.
Storing to memory begins.

8 Release your finger from the shutter button.
The camera takes images in memory from two seconds prior up to release of the shutter button.

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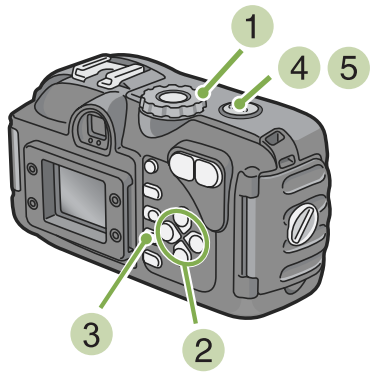
Shooting Movies

You can shoot movies with sound. You can select the image size, either 320 × 240, or 160 × 120 pixels. The maximum recording time of each shot is 30 seconds (320 × 240) and 120 seconds (160 × 120). Each movie you shoot is recorded as one AVI file.

To shoot a movie, follow the steps below.

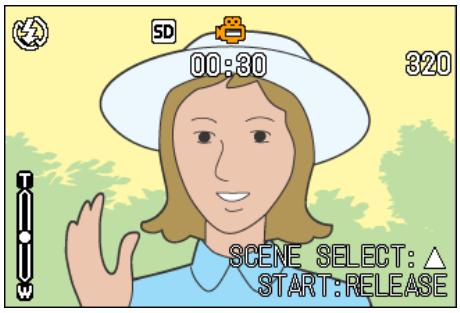
Buttons used here



1 Turn the Mode Dial to SCENE (Scene Mode).
The scene selection screen appears.

2 Press the ▲▼ buttons to select the Movie mode.

3 Press the OK button.
The display changes to the shooting screen and the movie mode mark appears at the top of the screen.



Press the MENU button to display the shooting menu.

4 Press the shutter button.
The camera starts recording.
Recording continues until you press the shutter button again.

5 Pressing the shutter button again stops recording.

While shooting movies, operation sounds may be recorded.

- The flash cannot be used.
- While shooting movies, only Digital Zoom can be used.
- At the time you press the shutter button in Step 4, the shot comes into focus and the white balance is automatically fixed.

- To change the image size for movies, see P.71.
- For how to use the Digital Zoom, see P.47.

AVI File
This is a file format used to save movie data.

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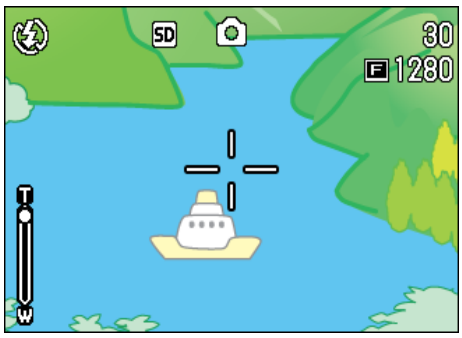
Shooting with Optical Zoom

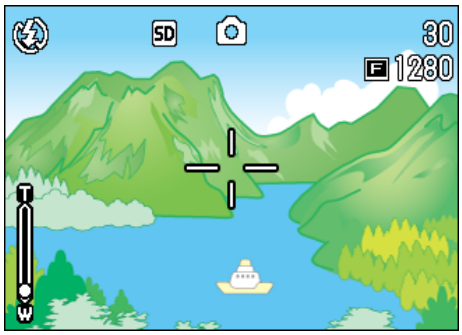
If you use the [T] (Telephoto): T/ [W] (Wide-angle): W buttons, you can alter the size of the subject in your photo without having to change your distance from the subject. (Equivalent to a 35mm camera's 28 to 85mm zoom.)

Optical Zoom
This function enlarges your subject by moving the lens, thus changing the focal length.

By pressing the [T] (Telephoto) button, the subject you see in the LCD Monitor and the Viewfinder becomes larger.
By pressing the [W] (Wide-Angle) button, the field in the LCD Monitor and the Viewfinder becomes wider.



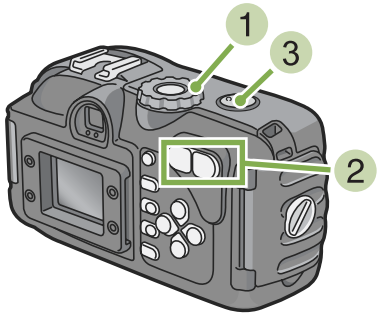
Telephoto Zoom



Wide-angle Zoom

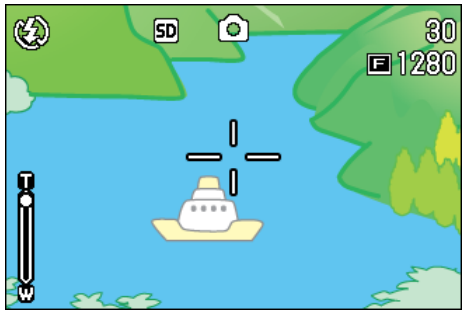
To shoot with the zoom, follow the steps below.

Buttons used here



1. **Turn the Mode Dial to [camera] (Shooting Mode).**

2. **Compose your picture while viewing either the LCD Monitor or the Viewfinder and zoom by pressing either the [T] button, or the [W] button.**
   A bar is displayed in the LCD Monitor indicating Zoom status.



3. **Press the shutter button.**

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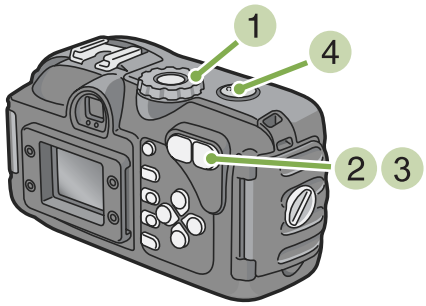
Shooting with the Digital Zoom

The Digital Zoom function enlarges images by processing them. When you use the digital zoom, pressing the [T] (Telephoto) button enlarges the subject even more than the specified enlargement ratio (optical zoom). (Maximum of 3.4 magnification.)

To shoot with the Digital Zoom, follow the steps below.

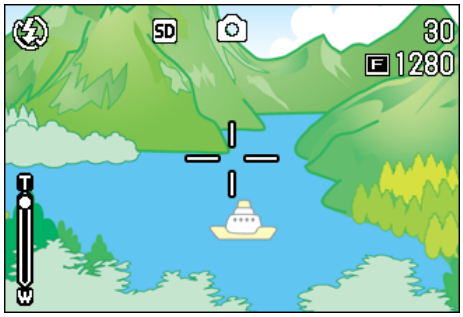
Buttons used here



1 Turn the Mode Dial to [camera] (Shooting Mode).

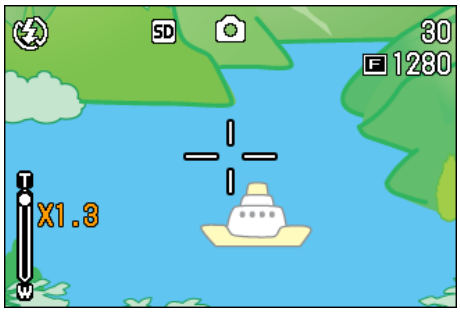
2 Zoom in to the maximum by pressing the [T] button, while viewing through the LCD Monitor.

A bar is displayed in the LCD Monitor indicating Zoom status.



3 With the subject image enlarged to the end of the T side (Telephoto) on the Zoom Bar, release the [T] button once and press [T] button again and hold down.

The digital zoom is activated and the subject becomes larger.



4 Press the shutter button.

- The more you enlarge with the digital zoom, the lower the picture quality becomes.
- When using the digital zoom, compose your shot on the LCD Monitor.
- If you use the Mode Dial to change modes, the digital zoom setting is lost.
- To release the digital zoom, press the [W] (Wide-angle) button.

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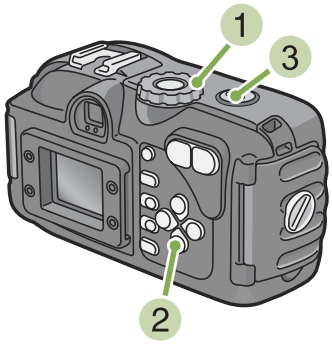
Shooting Close-ups (Macro Photo)

Using the (Macro) button allows you to take a tight close-up (Macro Photo). Use this button when the lens-to-subject distance is 1-60 cm (wide angle). This feature is good for shooting flowers, insects and other small subjects, because you can get a close-up of one centimeter (1/2 inch) from the subject.

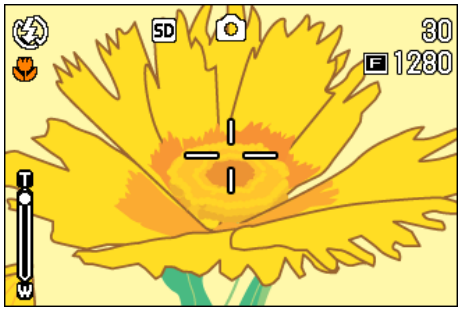
To shoot close-ups, follow the steps below.

Buttons used here



1 Turn the Mode Dial to (Shooting Mode).

2 Press the (Macro) button.
The Macro symbol is displayed on the left side of the screen.



3 Bring the lens close to the subject and press the shutter button.

- When using the zoom, you can shoot close-ups up to the following distances
  In Wide-Angle (Wide): Closest 1 cm In Telephoto (Tele): Closest 4 cm
- To get out of Macro Mode, press the (Macro) button again.
- During Macro Shooting, the Viewfinder cannot be used. Use the LCD Monitor.

For how to use optical zoom, see P.46.

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Recording Voice Memos

The voice recording time depends on the capacity of the SD memory card.

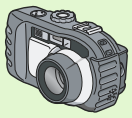
Capacity	Recording time
8MB	14 min 02 s
32MB	64 min 38 s
64MB	132 min 13 s
128MB	267 min 17 s

The internal memory allows the same recording time as an 8MB SD memory card.
Recorded data is stored as a WAV file.

Where images are recorded

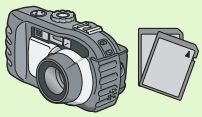
When an SD memory card is not inserted, the camera records images in the internal memory; when an SD memory card is inserted, it records images on the SD memory card.

When no SD memory card is loaded



▶▶▶▶▶▶ Records to internal memory

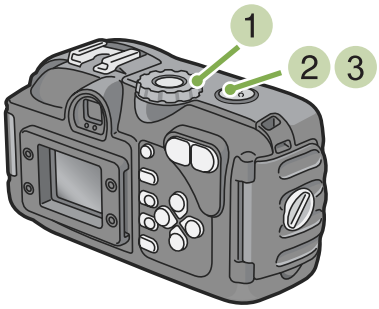
When an SD Memory Card is loaded



▶▶▶ Records to the SD memory card

To record sound, follow the steps below.

Buttons used here



1 Turn the Mode Dial to (Voice Mode).

2 Press the shutter button.

Voice recording starts.

3 Half-press the shutter button to stop recording.

For how to play back sound, see P.94.

WAV file

This is one of file formats to store voice data.

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Section 3 Using Special Features for Improved Photography

This section describes how to change the various shooting-related settings.

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Using the Flash

If you press the ϟ (Flash) button, you can switch into Flash Mode (Flash, Flash Off, and other settings). Switch settings according to time, conditions and your preference, and shoot your pictures.

The table below shows the distance that the light from the flash can reach (From the end in front of a lens)

In Wide-Angle (W)	In Telephoto (T)
Approx. 0.17 - 5.0 m	Approx. 0.09 - 3.3 m

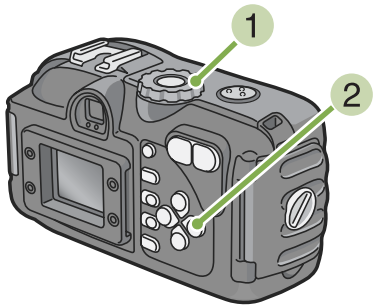
You can check your Flash Mode setting by the symbol displayed on the upper left of the LCD Monitor.

Flash Mode Types

Symbol	Mode Name	Description
	Flash Off	The flash will not fire. Use when shooting where the use of flash is prohibited or when shooting with indoor lighting.
AUTO	Auto	When your subject is poorly lit or backlit, the flash fires automatically.
	Red-eye reduction	When shooting images of people, the red-eye phenomenon, in which people's eyes appear red, is reduced.
	Forced Flash	The flash fires, whatever the light conditions are, when you shoot. Use when there is backlighting when shooting outside in daylight.
SLOW	Slow Synchro	The flash fires with the shutter speed slowed. Use when shooting images of people against a nightscape.

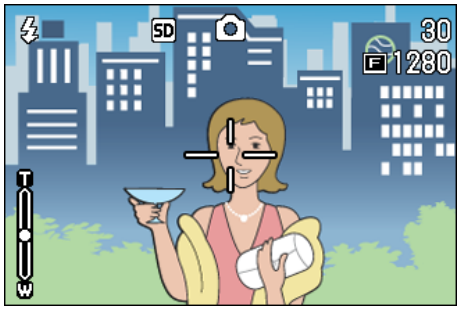
To switch to Flash Mode, follow the steps below.

Buttons used here



1 Turn the Mode Dial to 📷 (Shooting Mode).
Alternatively, turn the Mode Dial to **SCENE** (Scene Mode), and select a scene to have the camera ready.

2 Pressing the ϟ (Flash) button switches to Flash Mode.



The flash starts recharging. While the flash is charging, the LCD Monitor goes off and the flash lamp blinks. Once charging is complete, the lamp goes off and it is possible to shoot.

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Slow Synchronized

When you shoot pictures in dark places and want to capture background as well, use this mode, which slows shutter speed and sets the flash to Flash Off.

Red-Eye

If you shoot with the ϟ (flash) in a dark place, people's eyes will appear red. This is called the "red-eye" phenomenon.

- At purchase your camera is set to Flash Off.
- The settings are saved until you press the ϟ (Flash) button to change them.
- When shooting movies or in Multi-Shot mode, the setting becomes Flash Off.
- When the camera is set to Flash Off or Slow Synchro Mode, the shutter speed is slowed, so the camera is subject to camera shake. Hold the camera firmly with both hands and shoot.
- When in LANDSCAPE of Scene Mode, the flash setting is fixed to Flash Off.
- When in NIGHTSCAPE of Scene Mode, Forced Flash cannot be selected. Also, the initial setting value is Auto.
- If you press the flash button, even while the flash is charging, you can return to Flash Off mode. If you do this, flash charging is cancelled.

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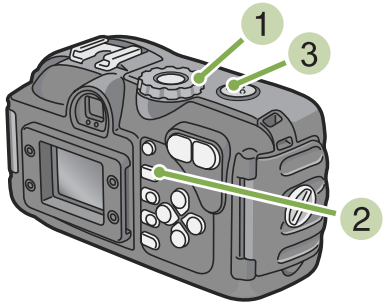
Using the Self-Timer

You can set the Self-timer to shoot after either two or ten seconds. If the person who takes the photo wants to be in the still image as well, it is convenient to use a setting of ten seconds; a setting of two seconds is useful for preventing camera shake. Attach a tripod securely to the tripod mount on the bottom of the camera.

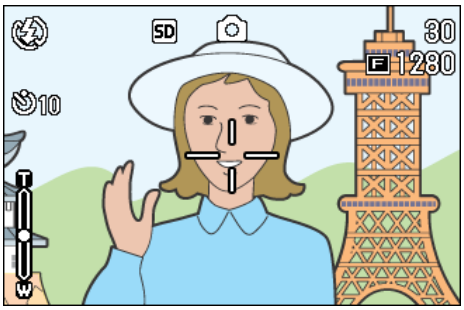
To shoot with the Self-timer, follow the steps below.

Buttons used here



1 Turn the Mode Dial to (Shooting Mode).

2 Press the (Self-timer) button.



The self-timer mode is switched on and the Self-timer symbol is displayed.
The "10" to the right of the symbol indicates the number of seconds. In this case, if you press the shutter button, the camera will shoot after 10 seconds.

3 Press the shutter button.

The flash begins to blink and the Self-timer starts. After about ten seconds the camera takes the picture. About two seconds before it shoots, the time interval between blinks begins to shorten and the audio tone begins to beep.

After shooting, Self-timer mode switches off.

- Each press of the (Self-timer) button, it selects a function in the following sequence: 10 sec, 2 sec, Self-timer Off, 10 sec, 2 sec...
- Self-timer settings are released when the power is turned off.
- Pressing the (Self-timer) button may clear the display on the LCD monitor in order to recharge the flash.

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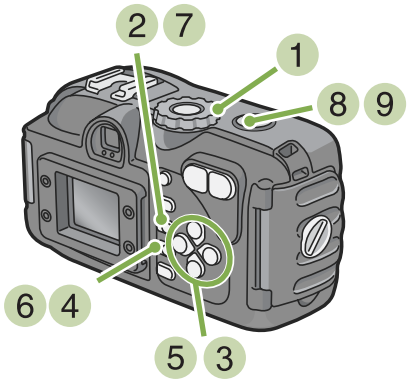
Shooting a Still Image with Sound (IMAGE WITH SOUND)

You can shoot a still image with a voice memo. After the still image is stored, voice recording starts automatically and can continue for up to eight seconds. This function is useful for adding comments on the status or contents of subject. Even when shooting in Scene Mode, you can record a voice memo by displaying and setting the Shooting menu.

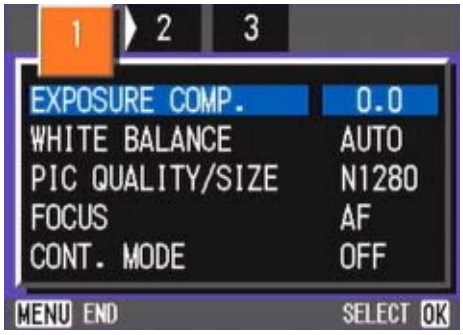
To shoot an image with sound, follow the steps below.

Buttons used here



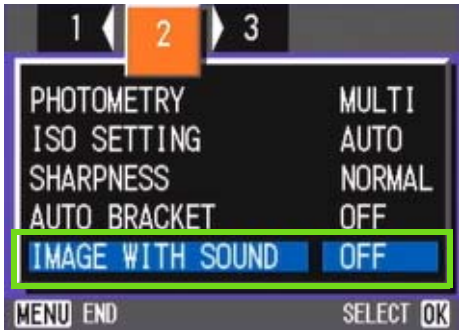
1 Turn the Mode Dial to (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.

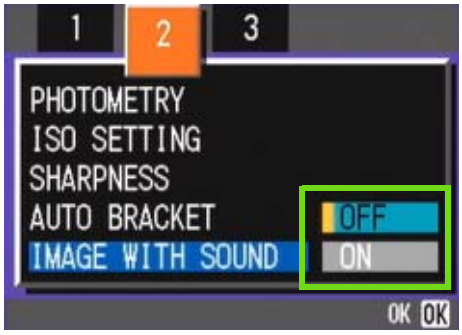


3 Press the ◀▶ buttons to switch between displays as required.

4 Select [Image With Sound] and press the OK button.

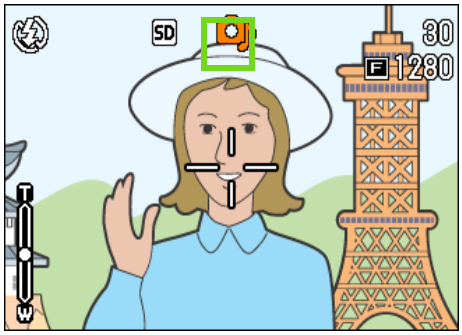


5 Press the ▲▼ buttons to select [ON].



6 Press the OK button.
The setting for shooting with sound is complete.

7 Press the MENU button.
The Shooting menu disappears and the cross-hair (shooting mark) appears.



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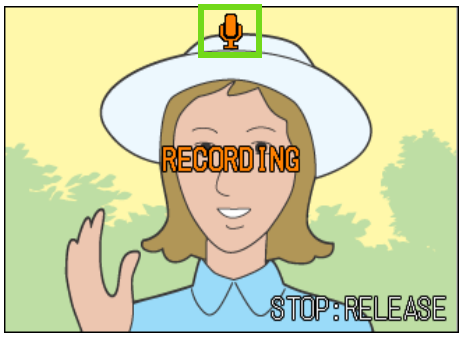
8 Press the shutter release button for shooting.

After shooting, the voice mark appears on the screen to indicate the recording status.



9 Press the shutter release button to stop recording.

- At purchase your camera is set to OFF.
- When the shooting mode is set to Multi-Shot (excluding S Multi-Shot and M Multi-Shot), sound recording function is not available.
- When shooting with sound, you cannot use Auto Bracket or White Balance Bracket.

For how to play back sound recorded with a still image, see P.91.

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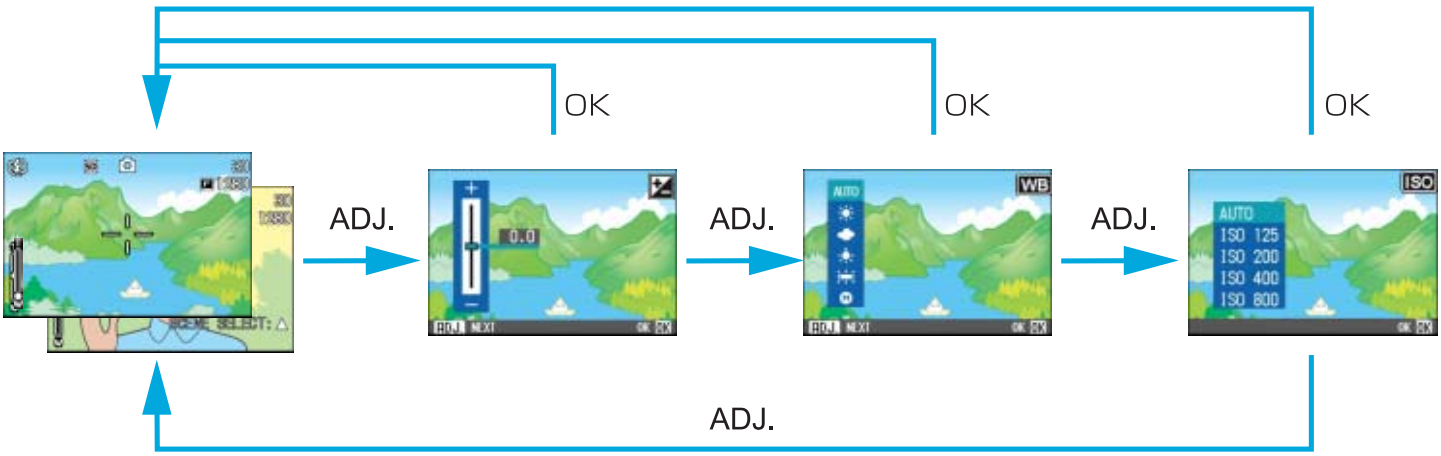
Using the ADJ. (Adjust) Button

Using the ADJ. Button allows you to make settings for exposure control, white balance, and ISO sensitivity, with minimum operations.



Settings Available Per Mode

Still Image Mode	Exposure control, white balance, ISO sensitivity
Scene Mode (Text Mode)	Text density
Scene Mode (Movie Mode)	Exposure control, white balance
Scene Mode (Except for Text and Movie Mode)	Exposure control, white balance

- After making settings for exposure control, white balance, or ISO sensitivity in the respective setting screen, press the ADJ. or OK button to set the value and proceed to the next screen.
- After specifying a value, you can begin shooting by pressing the shutter release button, without pressing the OK or ADJ. Button to return to the shooting screen. In this case, the screen returns to the setting screen after shooting.
- You can also make settings for exposure control, white balance, ISO sensitivity, and text density, using the Shooting Menu.
- In addition to the above, the ADJ. button can be used for the camera memo function.

- For instructions on using the ADJ. button to adjust exposure, white balance, ISO sensitivity, and text density, see the following pages.
  For exposure control, seeP.57
  For white balance, see P.61
  For ISO sensitivity, see P.65
  For text density, see P.67
- For instructions on using the Shooting Menu, see the following pages.
  For exposure control, see P.58
  For white balance, seeP.63
  For ISO sensitivity, see P.66
  For text density, see P.68
- For the ADJ. button function for camera memo, see P.189 and P.196 in "Chapter 3 Shooting with Camera Memos" in Part 4 of the Operation Manual.

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Changing the Exposure (EXPOSURE COMP.)

The exposure setting allows you to select brightness levels for your shots.
Normally, if your subject is centered, backlight compensation is automatically activated, and you can shoot with correct exposure. However, in the following cases, or when you intentionally want to change the exposure, you can change the exposure setting.
Setting the level higher (+) makes pictures brighter and lower (-) makes pictures darker.

Examples of Exposure Compensation

For Backlighting

When the background is particularly bright, the subject will be dark (under-exposure).

When your subject is whitish

When you photograph a subject that is mainly white, it will turn out entirely dark, with people appearing dark, and white objects appearing grayish.

When your subject is darkish

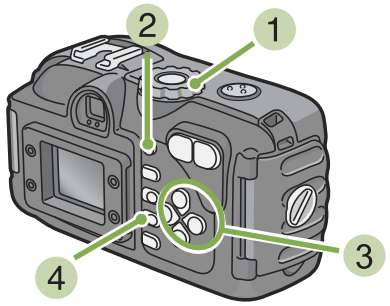
When you photograph a subject that is mainly dark, it will turn out entirely bright (over-exposure), with people appearing white, and black objects appearing grayish. The same happens when you take photos of people in a spotlight.

Exposure compensation setting can be adjusted by using the ADJ. Button or using the Shooting Menu.

Using the ADJ. Button (Exposure)

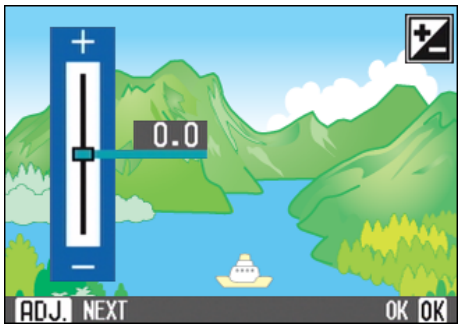
To change the exposure compensation setting using the ADJ. Button, follow the steps below.

Buttons used here



1 Turn the Mode Dial to 📷 (Shooting Mode).

2 Press the ADJ. Button.
The Exposure Compensation bar appears.



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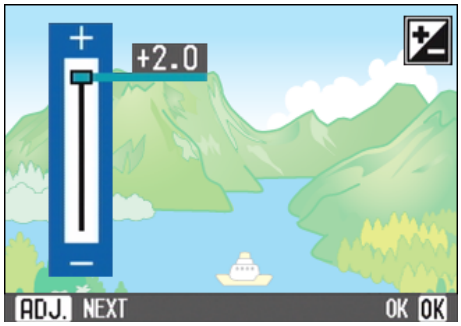
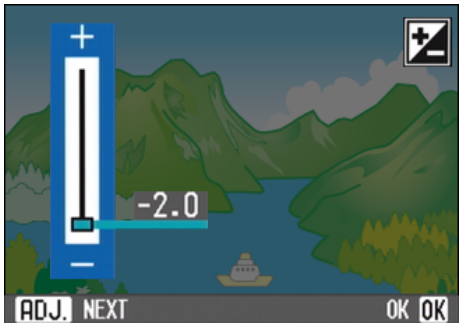
3 Press the ▲▼ buttons and specify a value.

Moving it to the - (minus) side makes darker. Moving it to the + (plus) side makes it brighter. You can also press the shutter button in this state.





4 Press the OK button.

Exposure Compensation settings are completed and the setting value appears in the right-hand portion of the screen.

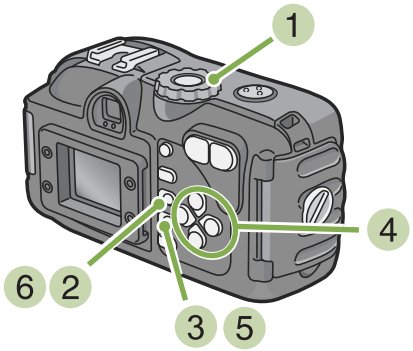
This setting will be used for shooting until you change it.

- At purchase, the exposure compensation is set to 0.0. The setting value does not appear when the default value is set.
- If your subject is not centered when shooting against light, the camera does not recognize it in the backlight condition. In this case, adjust the exposure compensation setting.

Using the Shooting Menu (Exposure)

To change the exposure compensation setting using the Shooting Menu, follow the steps below.

Buttons used here

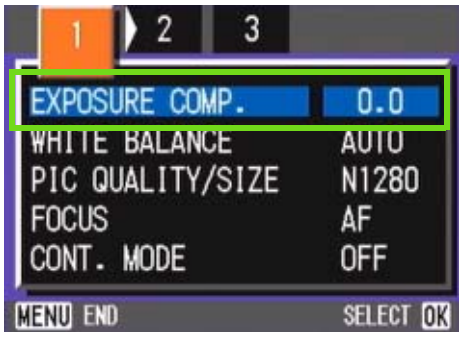


1 Turn the Mode Dial to (Shooting Mode).

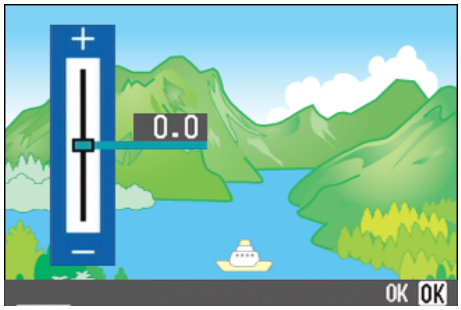
2 Press the MENU button.

The Shooting menu appears.

3 Select [EXPOSURE COMP.] and then press the OK button.



The Exposure Compensation bar appears.



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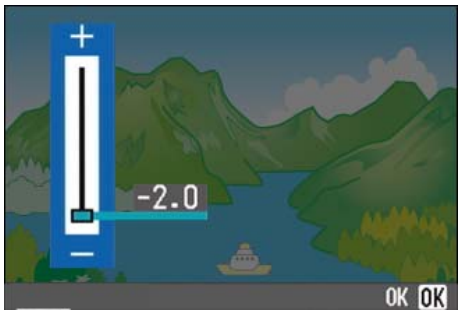
4 Press the ▲▼ buttons and specify a value.

Moving it to the - (minus) side makes darker. Moving it to the + (plus) side makes it brighter.



5 Press the OK button.

Exposure Compensation settings are completed.

6 Press the MENU button.

The Shooting Menu closes and the setting value appears in the right of the screen.

This setting will be used for shooting until you change it.

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Using Natural and Artificial Lighting (WHITE BALANCE)

With a normal camera, a white subject may not be reproduced as white depending on lighting around the subject.
Digital cameras have a function called White Balance, which automatically adjusts white balance so white subjects are reproduced as white. At purchase, the White Balance is set to "AUTO"; normally you does not need to change the setting, but if the camera is having difficulty adjusting, please change the setting.

Types of Modes you can Select

Symbol	Mode Name	Description
AUTO	Auto	Make adjustments automatically.
	Daylight	Best suited for shooting in bright outdoor light.
	Overcast	Best suited for shooting in cloudy weather or shade.
	Tungsten light	Best suited for shooting under tungsten light.
	Fluorescent light	Best suited for shooting under fluorescent light.
	One Push	Manually set White Balance.

The following subjects may make it difficult for the camera to automatically adjust White Balance:
- Single colored subjects
- Subjects under multiple light sources

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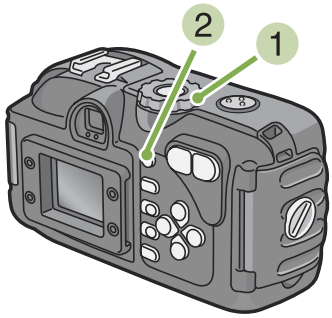
White balance setting can be adjusted by using the ADJ. Button or using the Shooting Menu.

Using the ADJ. Button (White Balance)

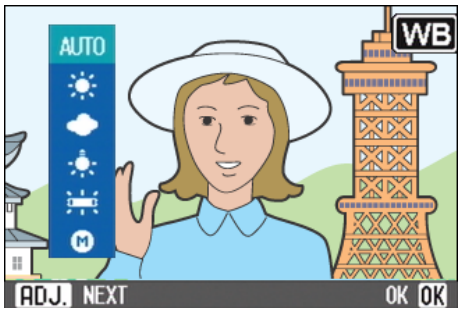
To change the white balance setting using the ADJ. Button, follow the steps below.

Buttons used here



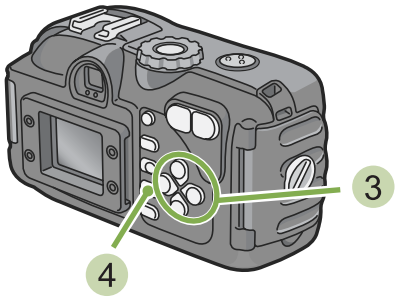
1 Turn the Mode Dial to (Shooting Mode).

2 Press the ADJ. Button.
The White Balance menu appears.

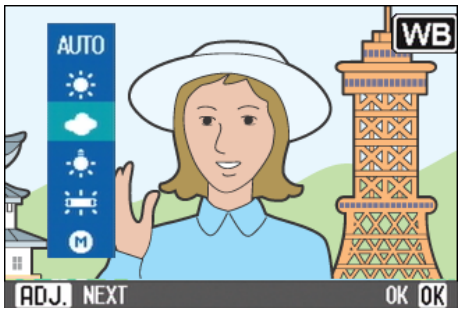


If you select AUTO / / / /

Buttons used here

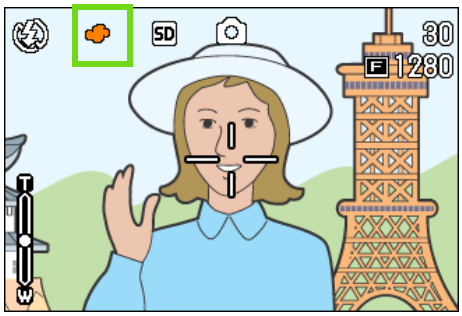


3 Press the ▲▼ buttons to select a mode.



You can also press the shutter button in this state.

4 Press the OK button.
White Balance settings are completed and the symbol appears in the upper left of the screen.



This setting will be used for shooting until you change it.

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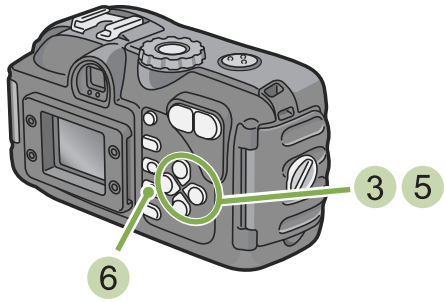
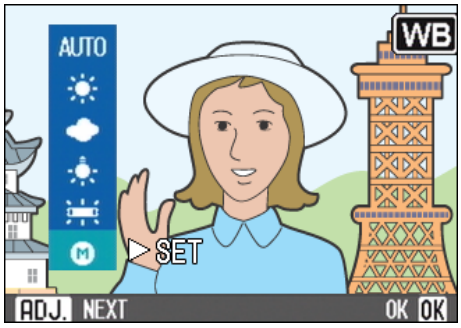
If you select Ⓜ (One Push)

Buttons used here



3 Press ▲▼ to select Ⓜ (One Push).



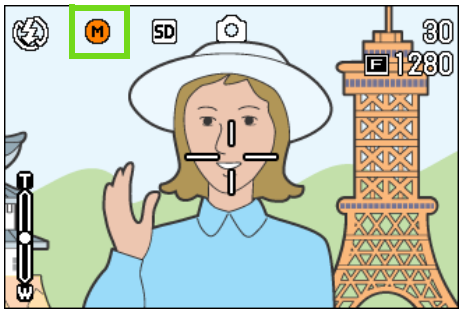
4 Point the camera at a piece of paper or something white under the lighting conditions for your picture.

5 Press the ▶ button.

White Balance is set.

6 Press the OK button.

White Balance settings are completed and the symbol appears in the upper left of the screen.



This setting will be used for shooting until you change it.

If you press the ▶ button in step 5, the screen refreshes to show the White Balance settings made. If the result is not as expected, repeat steps 4 and 5 to change the settings as many times as required.

In Auto Mode, white balance may not be adjusted correctly for a mostly dark subject. In this case, add something white as the subject.

When shooting with flash in a mode other than Auto, the white balance may not be adjusted correctly.

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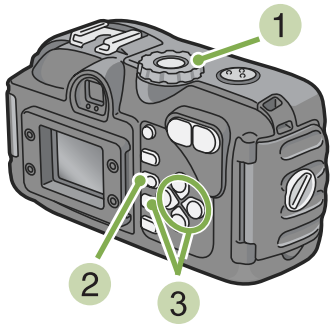
Using the Shooting Menu (White Balance)

To change the white balance setting using the Shooting Menu, follow the steps below.

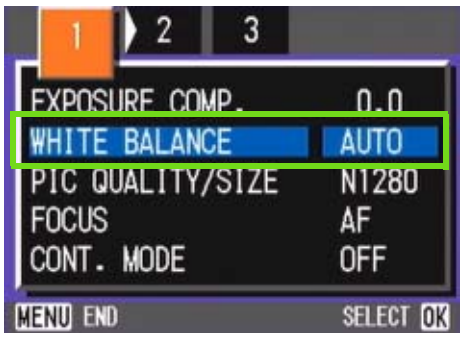
Buttons used here



1 Turn the Mode Dial to (Shooting Mode).
When shooting in Scene Mode, set to **SCENE** (Scene Mode) When shooting movies, set to (Movie Mode).

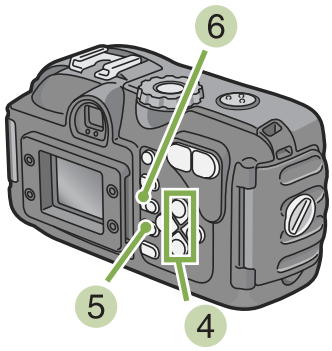
2 Press the MENU button.
The Shooting menu (or the Movie menu) appears.

3 Press the ▼ button to select [WHITE BALANCE] and then press the OK button.

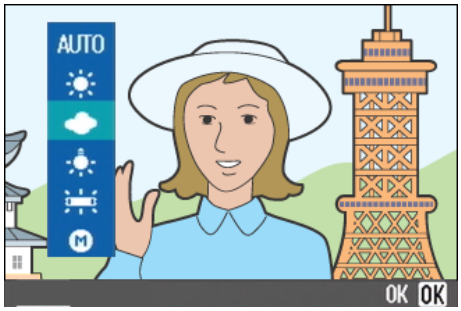


If you select AUTO / / / /

Buttons used here

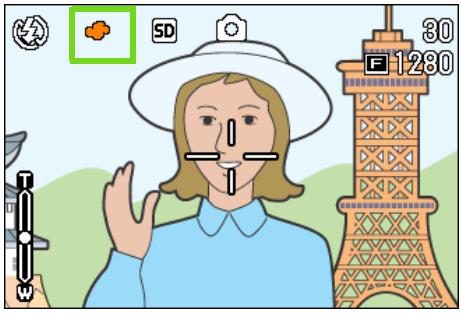


4 Press the ▲▼ buttons to select a mode.
You can also press the shutter button in this state.



5 Press the OK button.
White Balance settings are complete.

6 Press the MENU button.
The Shooting Menu closes and the setting value is displayed on the upper left of the screen.



Only except for scene mode, This setting will be used for shooting until you change it.

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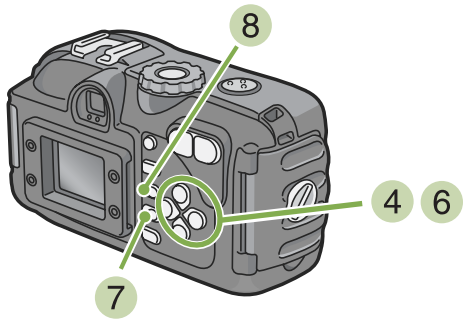
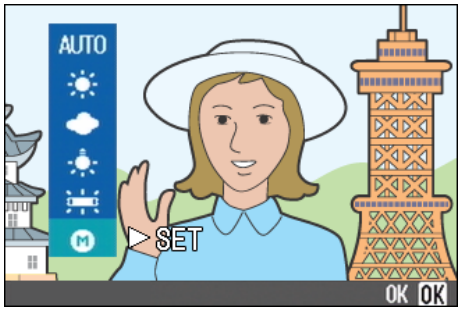
If you select Ⓜ (One Push)

Buttons used here



4 Press ▲▼ to select Ⓜ (One Push).



5 Point the camera at a piece of paper or something white under the lighting conditions for your picture.

6 Press the ▶ button.

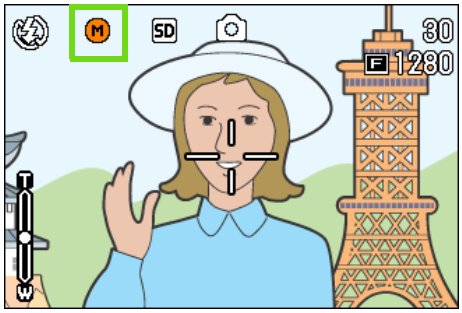
White Balance is set.

7 Press the OK button.

White Balance settings are complete.

8 Press the MENU button.

The Shooting Menu closes and the setting value is displayed on the upper left of the screen.



This setting will be used for shooting until you change it.

If you press the ▶ button in step 6, the screen refreshes showing the White Balance settings made. If the result is not as expected, repeat steps 5 and 6 to change the settings as many times as required.

In Auto Mode, white balance may not be adjusted correctly for a mostly dark subject. In this case, add something white as the subject.

When shooting with flash in a mode other than Auto, the white balance may not be adjusted correctly.

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Sensitivity Settings (ISO SETTING)

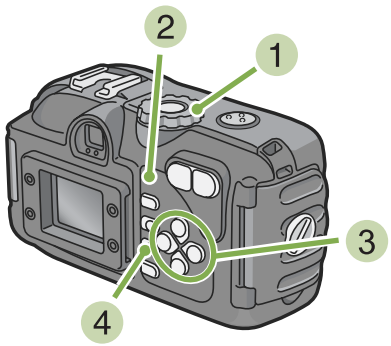
The ISO sensitivity indicates how sensitive to light the film is. A greater value means higher sensitivity. High sensitivity is suitable for shooting an object in a dark place or moving fast and suppresses blurring. However, the images become rough.

A digital camera automatically varies the sensitivity (AUTO). Normally use the camera in the AUTO mode. The ISO sensitivity can be selected from among the following five settings: AUTO, ISO125, ISO200, ISO400, and ISO800. In AUTO mode, the sensitivity is ISO160 with flash or ISO125 without flash. The ISO sensitivity can be set by using the ADJ. Button or using the Shooting Menu.

Using the ADJ. Button (ISO Sensitivity)

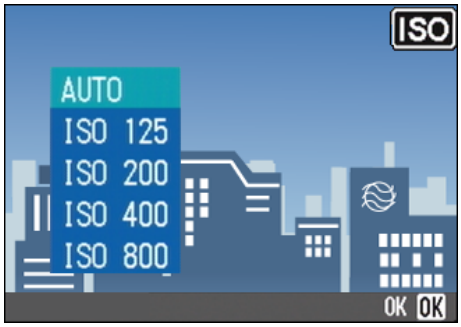
To change the ISO sensitivity setting using the ADJ. Button, follow the steps below.

Buttons used here

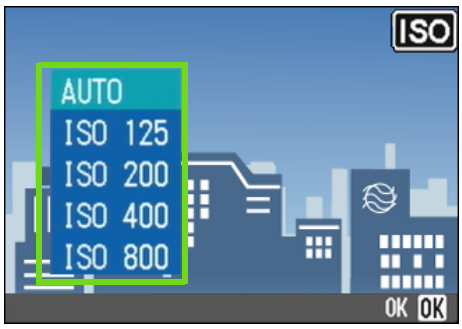


1 Turn the Mode Dial to 📷 (Shooting Mode).

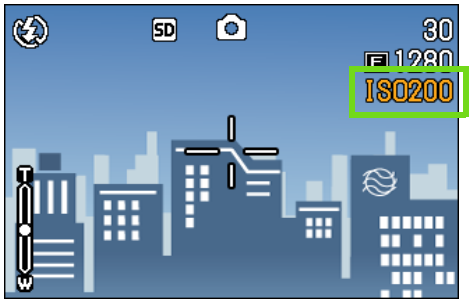
2 Press the ADJ. Button three times.
The ISO Sensitivity menu appears.



3 Press the ▲▼ buttons to select an ISO setting.
You can also press the shutter button in this state.



4 Press the OK button.
The ISO Sensitivity settings are completed and the setting value appears in the right-hand portion of the screen.



This setting will be used for shooting until you change it.

- At purchase, the sensitivity is set to Auto.
- When shooting in a dark place without using the flash, raising the sensitivity enables you to give a subject more brightness.
- If you increase the ISO Sensitivity, it becomes possible to shoot under low light conditions, but your pictures may become grainy. The higher the ISO Sensitivity, the grainier your pictures are likely to become, so it is necessary to exercise caution.

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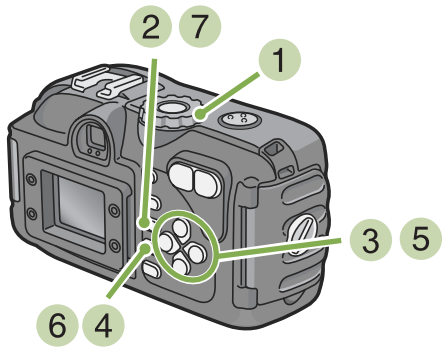
Using the Shooting Menu (ISO Sensitivity)

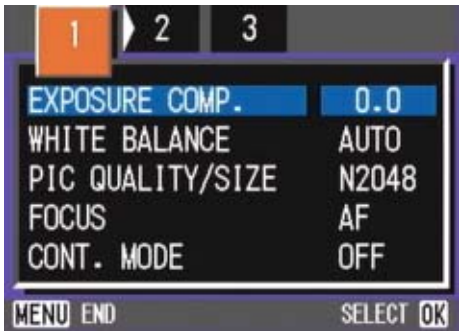
To change the ISO sensitivity setting using the Shooting Menu, follow the steps below.

Buttons used here



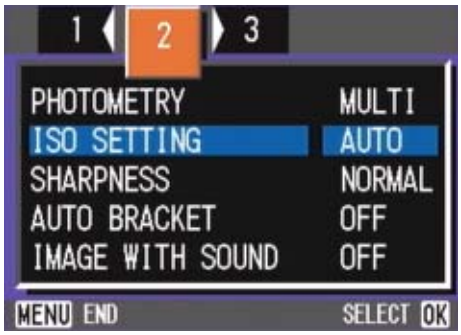
1 Turn the Mode Dial to 📷 (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.

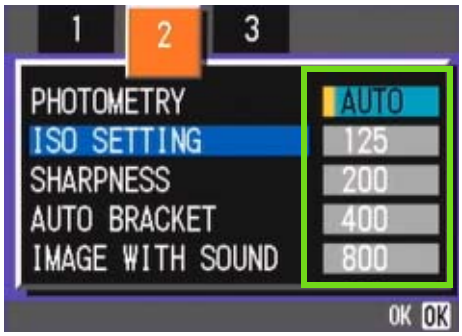


3 Press the ◀▶ buttons to switch between displays as required.

4 Select [ISO SETTING] and then press the OK button.



5 Press the ▲▼ buttons to select an ISO setting.



6 Press the OK button.
ISO settings are completed.

7 Press the MENU button.
The Shooting Menu closes and the setting value is displayed on the right of the screen.

This setting will be used for shooting until you change it.

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Changing Shading for Shooting Text (DENSITY)

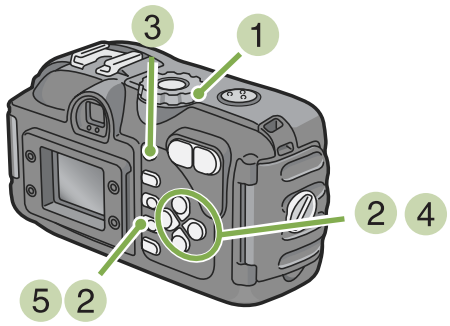
When you are shooting text, you can change the DENSITY settings. You can select from DEEP, NORMAL and LIGHT.
Text Density setting can be adjusted by using the ADJ. Button or using the Shooting Menu.

For information on how to shoot text, see P.39.

Using the ADJ. Button (Text Density)

To change the Text Density setting using the ADJ. Button, follow the steps below.

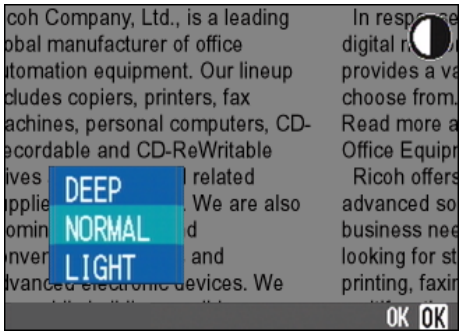
Buttons used here



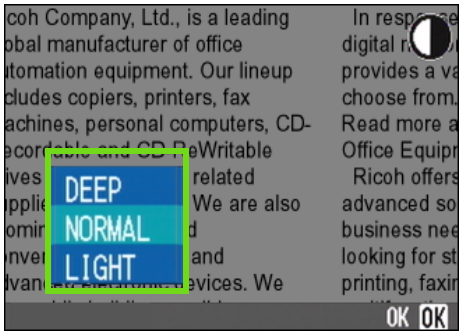
1 Turn the Mode Dial to SCENE (Scene Mode).
The Scene selection screen appears.

2 Press the ▲▼ buttons to select the text mode and then press the OK button.

3 Press the ADJ. Button.
The Text Density menu appears.



4 Press the ▲▼ buttons to select the desired density setting.



You can also press the shutter button in this state.

5 Press the OK button.
Text Density settings are completed.

The Text Density setting value does not appear on the screen. This setting will be used for shooting until you change it.

At purchase, the Text Density is set to Normal.

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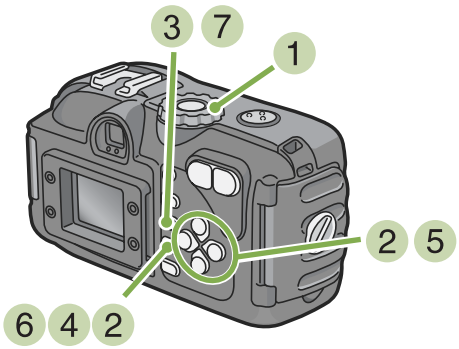
Using the Shooting Menu (Text Density)

To change the Text Density setting using the Shooting Menu, follow the steps below.

Buttons used here



1 Turn the Mode Dial to SCENE (Scene Mode).
The Scene selection screen appears.

2 Press the ▲▼ buttons to select the text mode and then press the OK button.

3 Press the MENU button.
The Shooting menu appears.

4 Select [DENSITY] and then press the OK button.

5 Press the ▲▼ buttons to select the desired density setting.

6 Press the OK button.
Text Density settings are completed.

7 Press the MENU button.
The display returns to the shooting screen.

The Text Density setting value does not appear on the screen.
This setting will be used for shooting until you change it.

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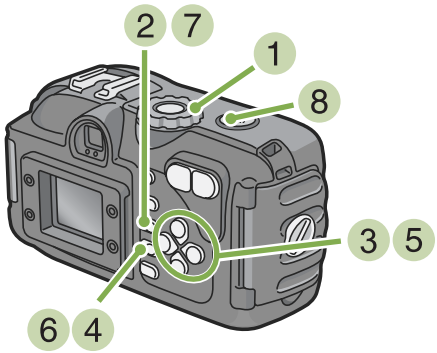
Shooting Consecutively with Different White Balance (WHITE BALANCE BRACKET)

Three images are automatically recorded - a reddish image, a bluish image, and an image of the current white balance.
The first image is reddish, the second one is equal to the current setting, and the third one is bluish.
This is useful if the appropriate white balance cannot be judged.

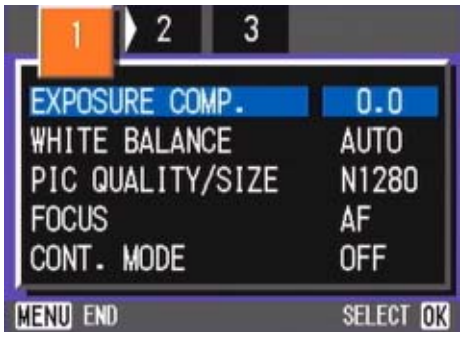
To shoot with White Balance Bracket, follow the steps below.

Buttons used here



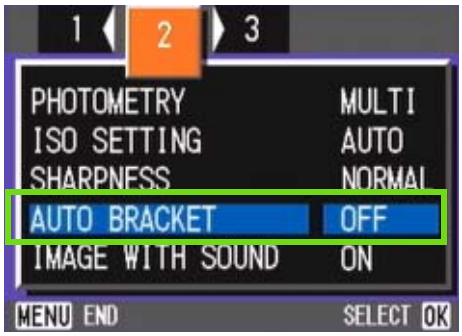
1 Turn the Mode Dial to (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.

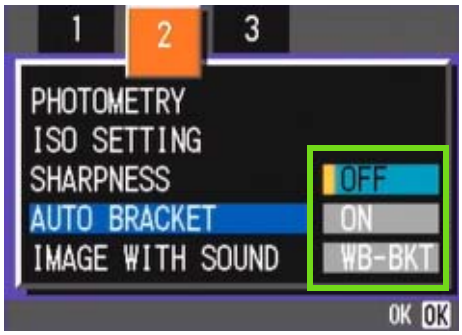


3 Press the ◀▶ buttons to switch between displays as required.

4 Select [Auto Bracket] and press the OK button.



5 Press the ▲▼ buttons to select [WB-BKT].



6 Press the OK button.
White Balance Bracket settings are complete.

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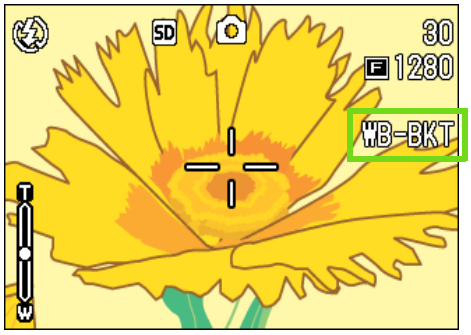
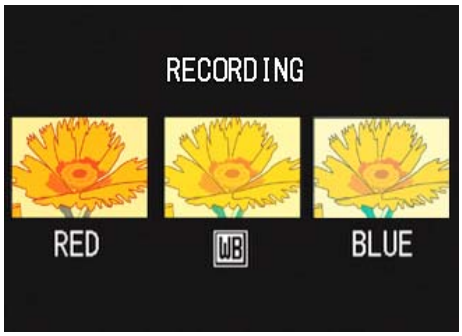
7 Press the MENU button.

The Shooting menu disappears and the screen displays the set values.



8 Press the shutter button.

Three images (reddish, bluish, and equal to the current white balance) are automatically recorded.
The three still images displayed on the LCD monitor immediately after shooting are reddish, equal to the current setting, and bluish from left.



- At purchase your camera is set to OFF.
- This function is not available for Multi-Shot shooting and Auto Bracket shooting (P.80).
- Flash cannot be used.
- Time Exposure (P.82) is set to OFF.

For how to change the white balance, see P.60.

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Choosing Picture Quality Mode/Image Size (PIC QUALITY/SIZE)

The size of stored still image and movie files depends on picture quality and size settings.

About Picture Quality Mode

When still images and movies are saved as image files, the image data is saved in a compressed file.
Picture Quality Mode specifies the compression ratio to use.
In Picture Quality Mode, there are two types, N (Normal) and F (Fine).

Normal Mode

The compression ratio is high, resulting in a small file. Normally, shooting is done in this mode.

Fine Mode

The compression ratio is low, resulting in a large file, but the picture quality is better than in Normal Mode.

About Image Size

Image size relates to how large the image is. A small image is best for sending via email and using on Web sites. When printing pictures, choose the larger size to obtain better results.

- In the CALS mode, the picture quality and image size are fixed at N1280. They cannot be changed.
- Picture quality settings cannot be made for movies.
- The image sizes that can be set differ for still images and movies.

Image Files
Files containing still images and movies are called Image Files.

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Changing Picture Quality Mode/ Image Size of a Still Image

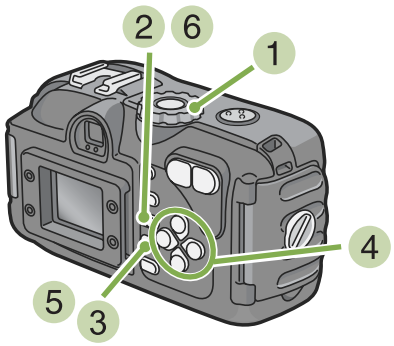
Combining Picture Quality Mode and Image Size.

		Size		
		2048×1536	1280×960	640×480
Mode	F (Fine)	F2048	F1280	———
	N (Normal)	N2048	N1280	N640

Figures inside the bold frame indicate those shown on the screen.
There is no Fine Mode for 640×480.
For details, see "SD Memory Card Recording Capacities" (P.214).

To make changes to Picture Quality Mode/ Image Size, follow the steps below.

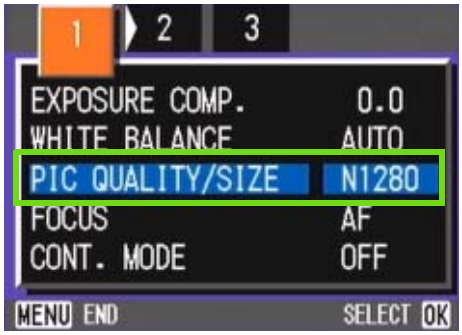
Buttons used here



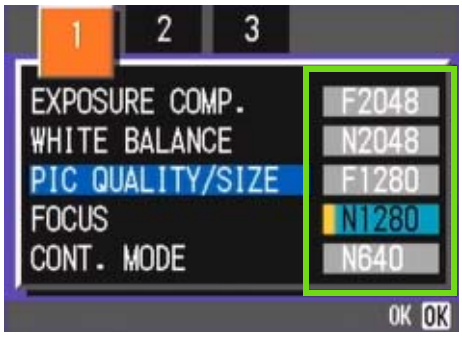
1 Turn the Mode Dial to (Shooting Mode).
Alternatively, turn the Mode Dial to **SCENE** (Scene Mode) and select a mode to prepare the camera.

2 Press the MENU button.
The Shooting menu appears.

3 Select [PIC QUALITY/SIZE] and then press the OK button.

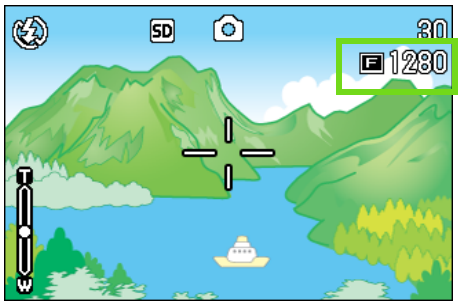


4 Press the ▲▼ buttons to select a picture quality/size.



5 Press the OK button.
Picture Quality/Image Size settings are completed.

6 Press the MENU button.
The Shooting Menu closes and the setting value is displayed on the upper-right of the screen.



This setting will be used for shooting until you change it.

At purchase your camera is set to N1280.

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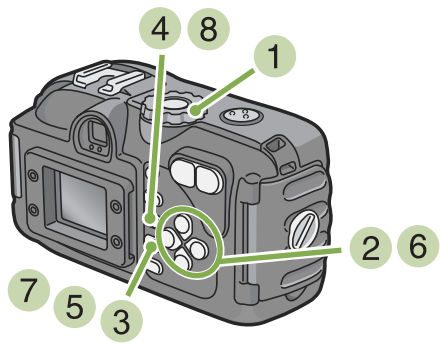
Changing the Image Size for Shooting in TEXT Mode

In TEXT Mode, you cannot set Image Quality Mode. The image size can be selected from 1280 × 960 and 2048 × 1536.

At purchase your camera is set to 1280 × 960.

To change the image size, follow the steps below.

Buttons used here



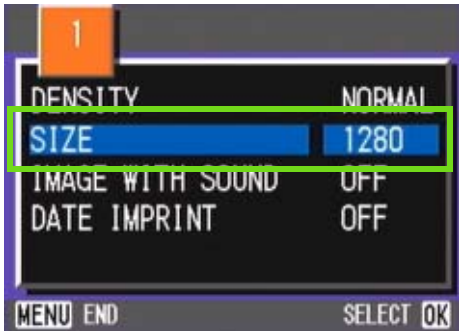
1 Turn the Mode Dial to SCENE (SCENE Mode).
The Scene selection screen appears.

2 Press the ▲▼ buttons to select TEXT Mode.

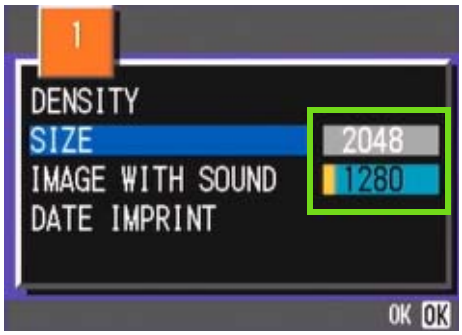
3 Press the OK button.
The display changes to the Shooting screen in SCENE Mode with the TEXT Mode mark at the upper part of the screen.

4 Press the MENU button.
The Shooting menu appears.

5 Choose [Size] and press the OK button.

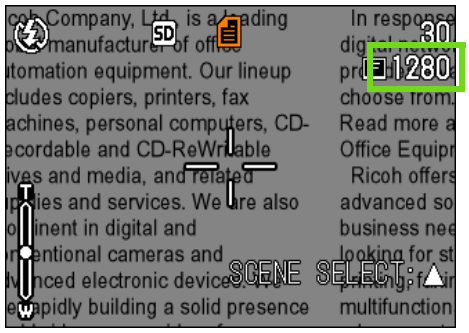


6 Press the ▲▼ buttons to select a size.



7 Press the OK button.
The image size setting is complete.

8 Press the MENU button.
The Shooting menu disappears and the setting is displayed at the upper right of the screen.



This setting will be used for shooting until you change it.

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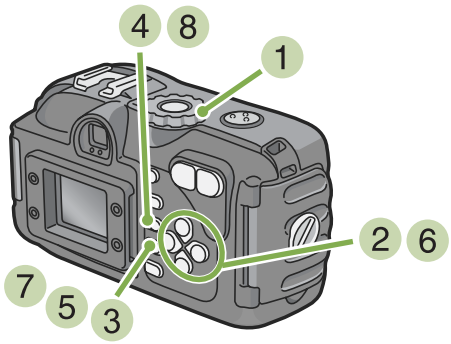
Changing the Image Size of a Movie

Image Quality Mode settings cannot be made for movies.
Two Image sizes are available: 320 × 240, and 160 × 120 pixels.

At purchase, your camera is set to 320 × 240.

To make changes to Image Size, follow the steps below.

Buttons used here



1 Turn the Mode Dial to SCENE (Scene Mode).
The scene selection screen appears.

2 Press the ▲▼ buttons to select the Movie mode.

3 Press the OK button.
The display changes to the shooting screen and the movie mode mark appears at the top of the screen.

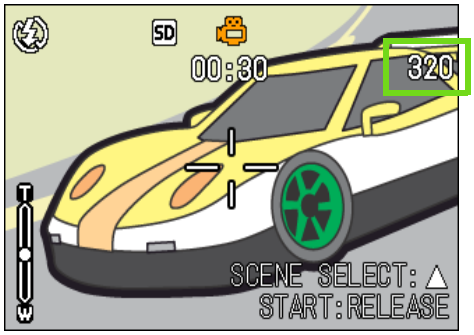
4 Press the MENU button.
The Shooting menu appears

5 Select [MOVIE SIZE] and then press the OK button.

6 Press the ▲▼ buttons to select Size.

7 Press the OK button.
Movie Size settings are complete.

8 Press the MENU button.
The Shooting Menu closes and the setting value is displayed on the upper-right of the screen.



This setting will be used for shooting until you change it.

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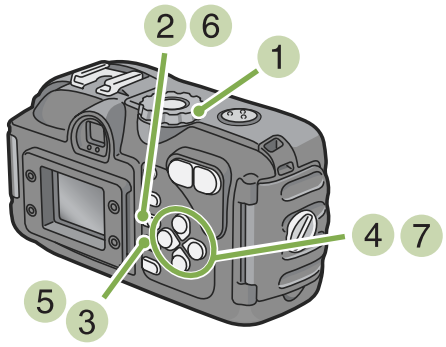
Manual Focus Shooting (FOCUS)

When Auto-Focus does not focus as desired, you can focus manually (Manual Focus). You can be united also with the subject in the macro distance.
You can also shoot with a fixed shooting distance. When using a fixed shooting distance, it can be set to either Snapshot or Infinity (∞).

Manual Focus Shooting

For Manual Focus Shooting, follow the steps below.

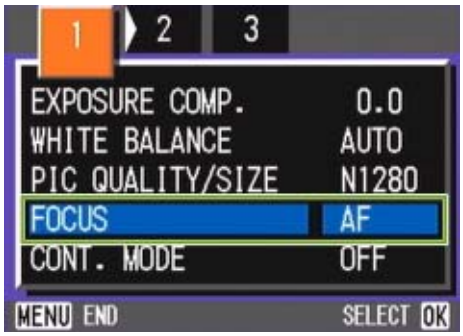
Buttons used here



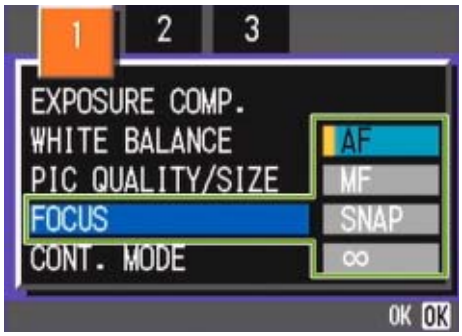
1 Turn the Mode Dial to (Shooting Mode).
When shooting movies, set to (Movie Mode).

2 Press the MENU button.
The Shooting menu appears.

3 Select [FOCUS] and press the OK button.

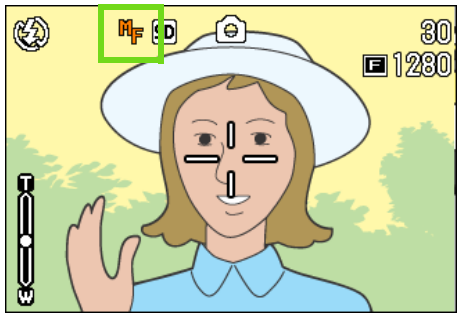


4 Press the ▲▼ buttons to select [MF].



5 Press the OK button.
Focus settings are complete.

6 Press the MENU button.
The Shooting Menu closes and "MF" is displayed on the upper part of the screen.



7 Press the ▲▼ buttons to focus the camera.
If you press the ▲ button, the focus moves closer.
If you press the ▼ button, the focus moves further away.

Manual Focus is used for shooting until you change the settings.

- At purchase your camera is set to AF (Auto-Focus).
- Manual focus cannot be used in Scene Mode.
- Quick Review (P.88) cannot be used in Manual Focus Mode.

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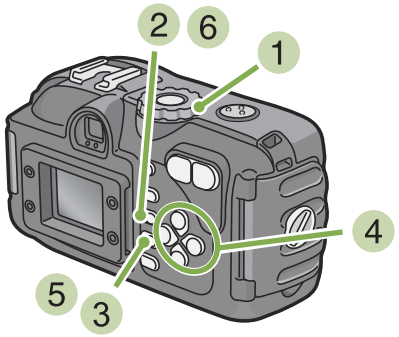
Shooting at a Fixed Distance

To shoot with the shooting distance fixed, follow the steps below.

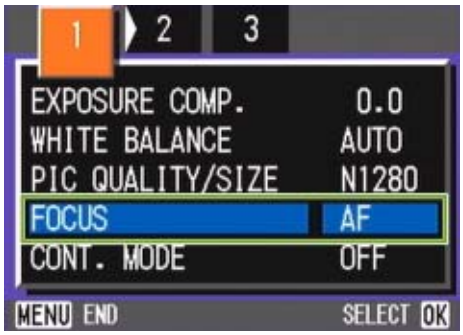
Buttons used here



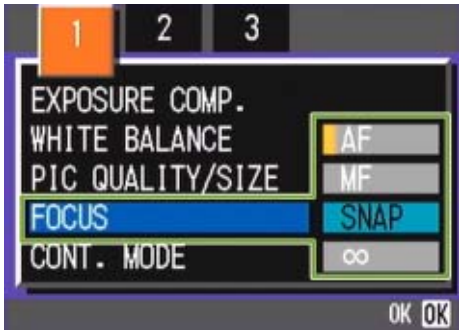
1 Turn the Mode Dial to (Shooting Mode).
When shooting in Scene Mode, set to **SCENE** (Scene Mode) then select a Shooting Mode.
When shooting movies, set to (Movie Mode).

2 Press the MENU button.
The Shooting menu appears.

3 Select [FOCUS] and then press the OK button.

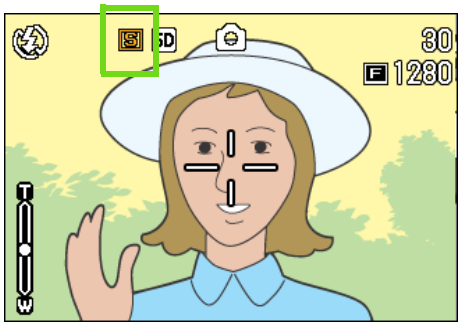


4 Press the ▲▼ buttons to select [SNAP] or [∝] (Infinity).



5 Press the OK button.
Focus settings are complete.

6 Press the MENU button.
The Shooting Menu closes and the specified value is displayed on the upper part of the screen.



This setting will be used for shooting until you change it.

- Selecting [SNAP] will fix the shooting distance to 2.5 meters.
- Selecting [∝] will fix the shooting distance to infinity. This feature is useful to shoot a distant view.

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Changing the Light Metering (PHOTOMETRY)

You can change the metering method (the range to use for metering) to determine the exposure value. There are three Light Metering Methods available: MULTI, CENTRE, and SPOT.

MULTI (No Symbol)

The entire shooting range is divided into 256 partitions, and subjected to photometry for overall decision.
At purchase, your camera is set to this method.

CENTER( )

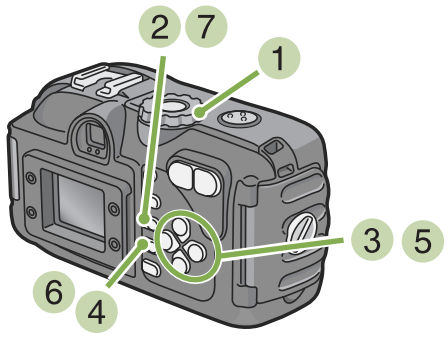
The light metering is determined by a measurement of the whole, with the central part emphasized.
Use this when the brightness of the center and surroundings are different.

SPOT( )

Light metering is determined by measuring only the central part.
Use this setting when you want to use the brightness of the center. It is useful if there is marked difference in contrast or backlighting.

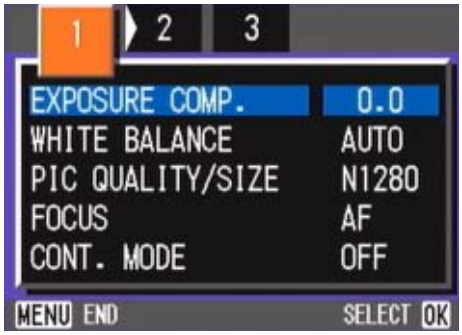
To select light metering method, follow the steps below.

Buttons used here



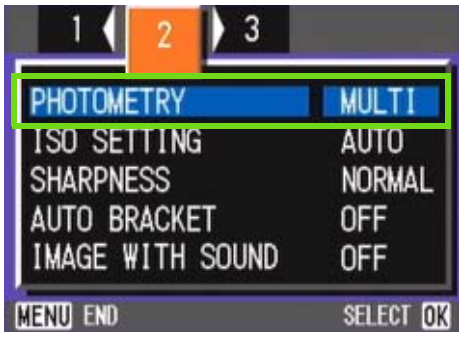
1 Turn the Mode Dial to (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.

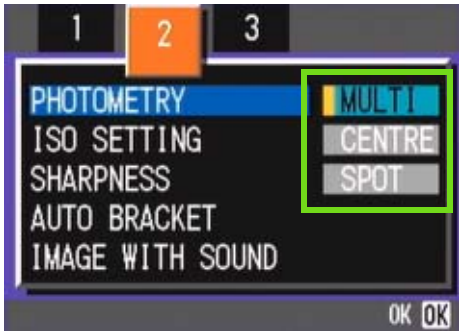


3 Press the ◀▶ buttons to switch between displays as required.

4 Select [PHOTOMETRY] and then press the OK button.



5 Press the ▲▼ buttons to select the desired setting.



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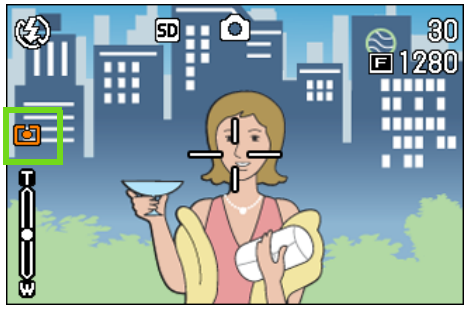
6 Press the OK button.

Light Metering Method setting is complete.

7 Press the MENU button.

The Shooting Menu closes and the specified value is displayed on the left side of the screen.



This setting will be used for shooting until you change it.

At purchase, the setting is Multi.

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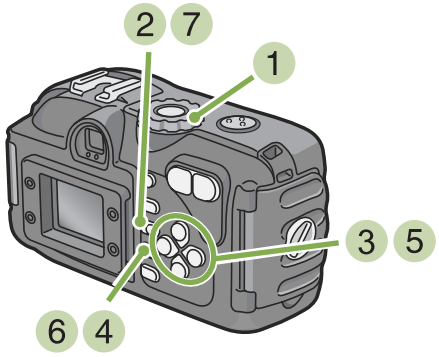
Changing the Edge Quality of Still Images (SHARPNESS)

You can change the definition of your still images to either sharp or soft.

At purchase, your camera is set to Normal.

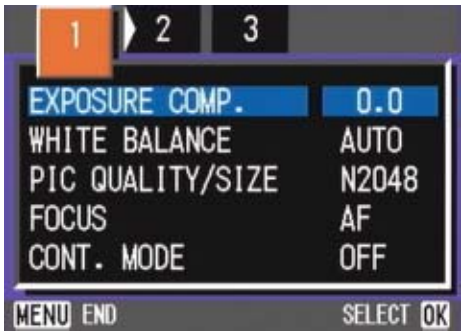
To make changes to the sharpness of still images, follow the steps below.

Buttons used here



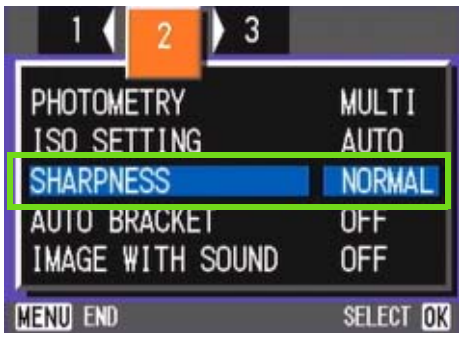
1 Turn the Mode Dial to (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.

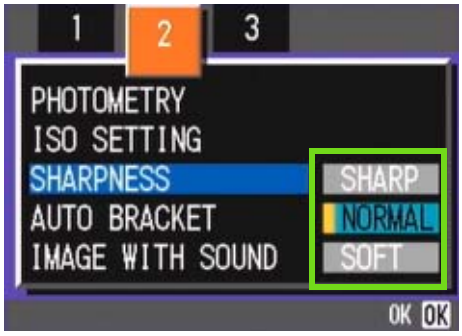


3 Press the ◀▶ buttons to switch between displays as required.

4 Select [SHARPNESS] and then press the OK button.

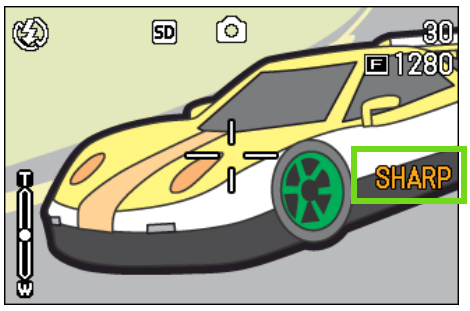


5 Press the ▲▼ buttons to select the desired setting.



6 Press the OK button.
Sharpness settings are complete.

7 Press the MENU button.
The Shooting Menu closes and the setting value is displayed on the right of the screen.



This setting will be used for shooting until you change it.

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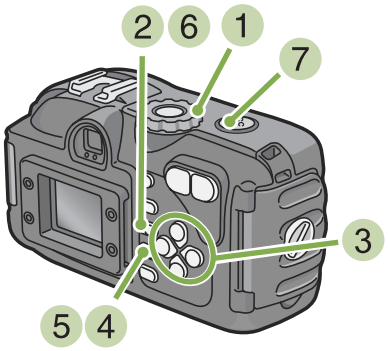
Shooting Consecutively with Different Exposures (AUTO BRACKET)

The Auto Bracketing function automatically shoots three consecutive shots, with the specified exposure value as standard, at three exposure levels, at -0.5EV, ±0, and +0.5EV.

- At purchase, this feature is set to OFF.
- This function is not available when shooting with sound.

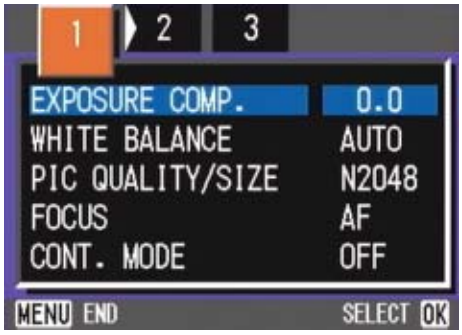
To shoot with Auto Bracket, follow the steps below.

Buttons used here



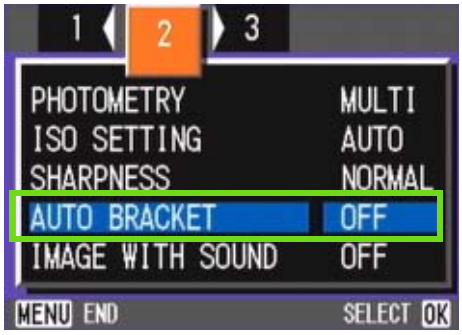
1 Turn the Mode Dial to (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.

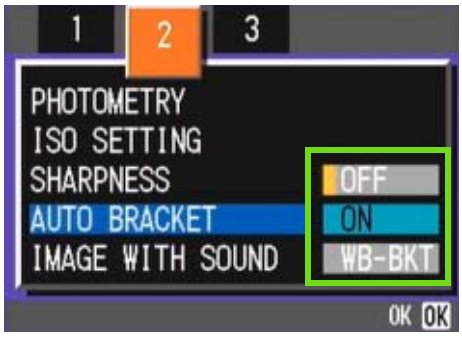


3 Press the ◀▶ buttons to switch between displays as required.

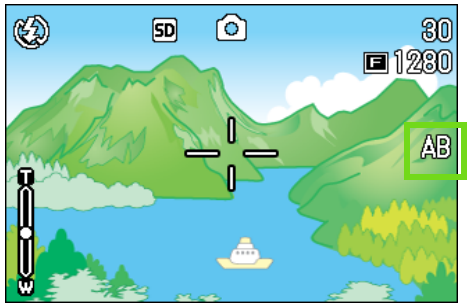
4 Select [AUTO BRACKET] and then press the OK button.



5 Select [ON] and then press the OK button.



6 Press the MENU button.
The Shooting Menu closes and [AB] is displayed on the left side of the screen.



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7 Press the shutter button.

Three consecutive shots are taken, with the specified Exposure Compensation value as the standard, at -0.5EV, ±0, and +0.5EV.
After shooting, three still images are displayed on the LCD Monitor. They are, from the left, at -0.5EV (darker), standard compensation, and +0.5EV (brighter).

• For how to change the Exposure Compensation see P.57.
• For how to change the White Balance see P.60.

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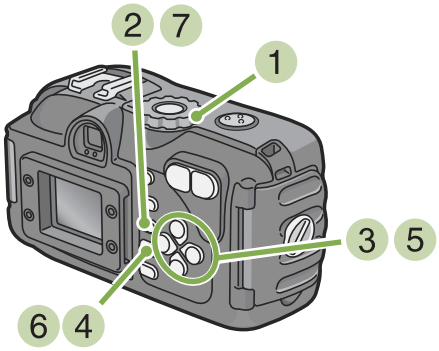
Setting the Exposure Time (TIME EXPOSURE)

If you set the camera to TIME EXPOSURE, when you shoot, the shutter stays open for the time specified. By setting an exposure time, you can capture the track of moving subjects such as fireworks and car lights, when you shoot a night scene. You can select an exposure time of 1, 2, 4 or 8 seconds.

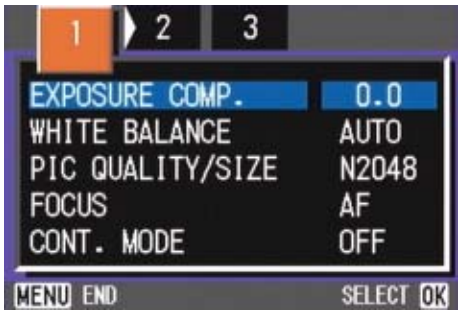
To set the exposure Time, follow the steps below.

Buttons used here



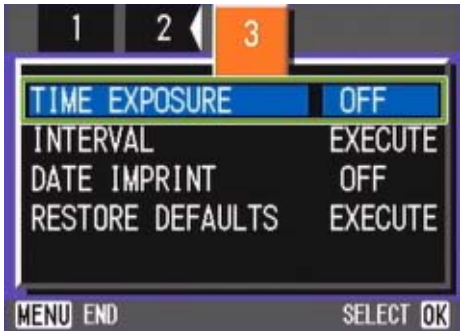
1 Turn the Mode Dial to 📷 (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.

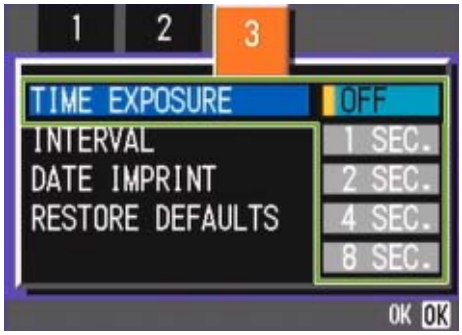


3 Press the ◀▶ buttons to switch between displays as required.

4 Select [TIME EXPOSURE] and then press the OK button.

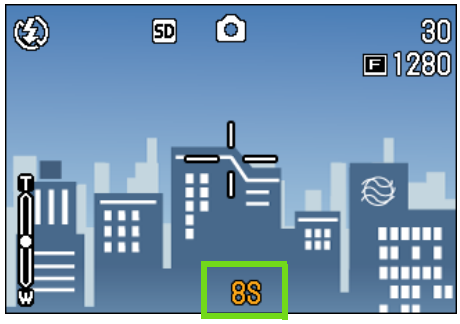


5 Press the ▲▼ buttons to select the desired setting.



6 Press the OK button.
Exposure Time settings are completed.

7 Press the MENU button.
The Shooting Menu closes and the specified value is displayed on the bottom of the screen.



This setting will be used for shooting until you change it.

- At purchase, the setting is OFF.
- When the camera is set to Exposure Time, the shutter speed is slowed, so the camera is subject to camera shake. Hold the camera firmly with both hands when you shoot.
- If you set Exposure Time before shooting, the display on the LCD monitor remains cleared during shooting.

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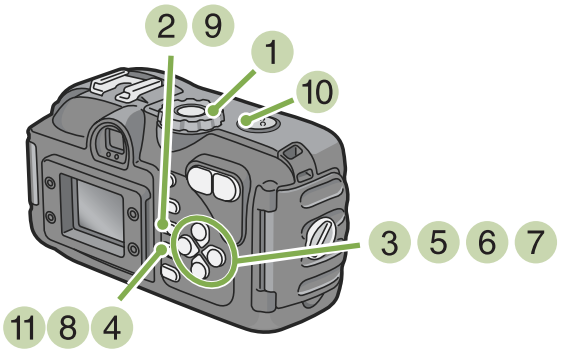
Shooting Pictures Automatically at Set Intervals (INTERVAL)

You can set the camera to automatically take pictures at fixed intervals. You can set the shooting interval at any length from 30 seconds to 3 hours, in increments of 30 seconds.

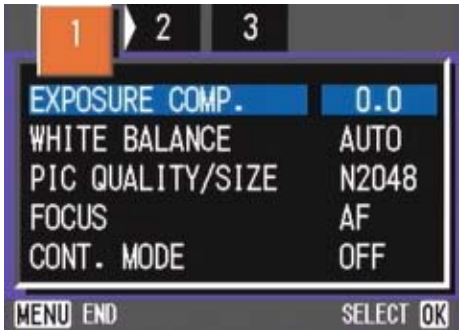
For Interval Shooting, follow the steps below.

Buttons used here



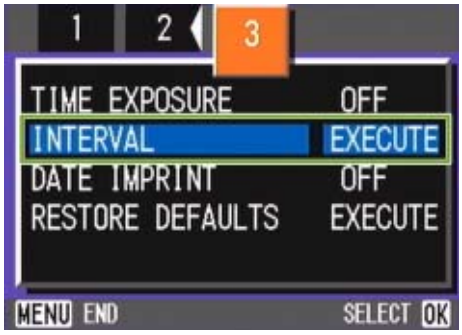
1 Turn the Mode Dial to (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.

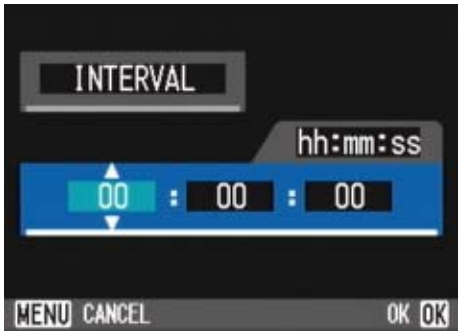


3 Press the ◀▶ buttons to switch between displays as required.

4 Select [INTERVAL] and then press the OK button.



5 Press the ▲▼ buttons to specify the length of time.



6 Press the ▶ button to move to the minutes setting, then use the ▲▼ button to set the minutes.

7 Press the ▶ button to move to the seconds setting, then press the ◀▶ buttons to set the seconds.

8 Press the OK button.
Interval Shooting settings are completed.

When Interval Shooting is on, even when Multi-Shot is set to [CONT], [MCONT], consecutive shooting is automatically switched off.

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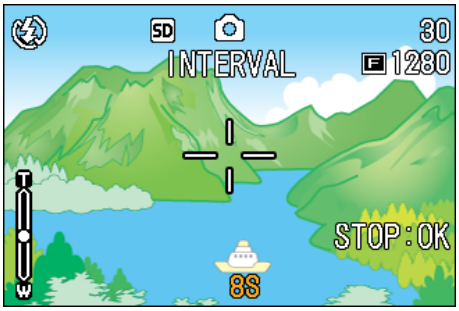
9 Press the MENU button.

The Shooting Menu closes and "Interval" is displayed on the upper part of the screen.



10 Press the shutter button.

A picture is taken every time the fixed interval elapses.

11 To stop shooting, press the OK button.

Interval Shooting settings are cleared when the power is turned off.

- In steps 5 to 7 , if you press the ▲▼ buttons, you can quickly raise or lower the setting value.
- If you use batteries for power, you may exhaust the batteries. Using the AC Adapter (sold separately) is recommended.
- Even during Interval Shooting, if you press the shutter button, the camera will shoot as usual. However, Interval Shooting Mode is unaffected. After shooting, once the time specified in Interval Shooting elapses, the next shot is taken.
- Depending on Picture Quality Mode and Flash Mode settings, the shooting interval may become longer than the time set.

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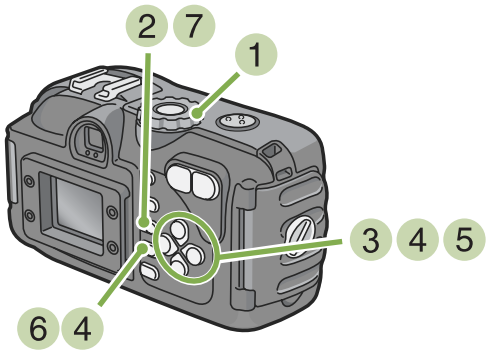
Inserting the Date into a Still Image (DATE IMPRINT)

You can stamp the date on the bottom right of your still images. You can choose to display the date in one of two formats, Date (Y/M/D) or Date and Time (Y/M/D/H:M).

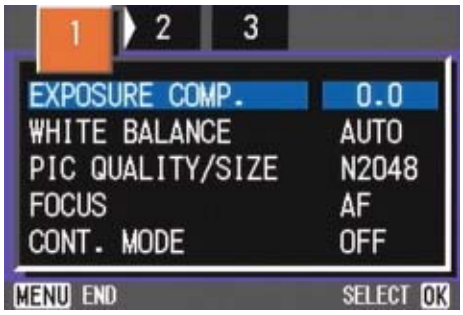
To enter the date or date and time, follow the steps below.

Buttons used here



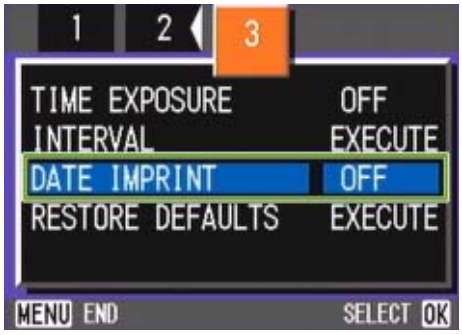
1 Turn the Mode Dial to 📷 (Shooting Mode).

2 Press the MENU button.
The Shooting menu appears.



3 Press the ◀▶ buttons to switch between displays as required.

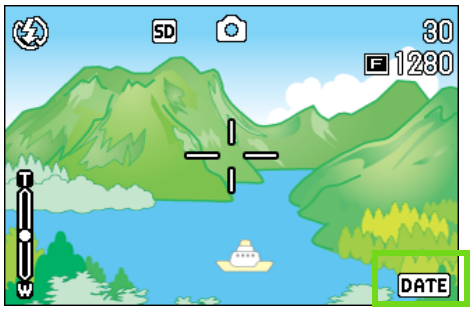
4 Press the ▼ button to select [DATE IMPRINT] and then press the OK button.



5 Press the ▲▼ buttons to select the desired setting.

6 Press the OK button.
The Date Imprint settings are completed.

7 Press the MENU button.
The Shooting Menu closes and DATE is displayed on the bottom right of the screen.



This setting will be used for shooting until you change it.

- If the date and time have not been set, DATE IMPRIMNT cannot be used. First make the date and time settings.
- DATE IMPRINT cannot be used with movies.

For how to set date and time, see P.17.

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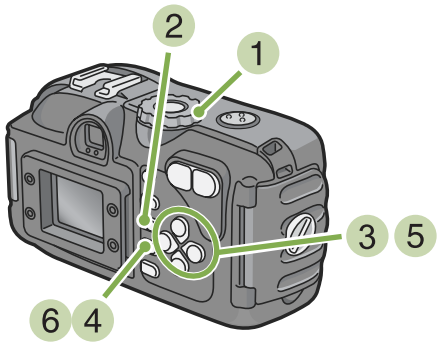
Returning the Shooting Menu Settings to their Defaults (RESTORE DEFAULTS)

You can restore the Shooting Menu defaults, returning the settings to what they were at the time of purchase.

To restore the Shooting Menu to its initial settings, follow the steps below.

Buttons used here

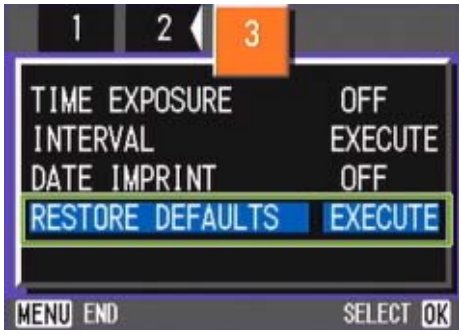


1 Turn the Mode Dial to (Shooting Mode).

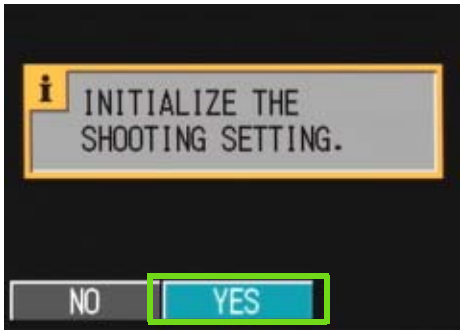
2 Press the MENU button.
The Shooting Menu appears.

3 Press the ◀▶ buttons to switch between displays as required.

4 Select [RESTORE DEFAULTS] and then press the OK button.



5 Press the ▶ button to select [YES].



6 Press the OK button.
The display indicates the camera is restoring the initial settings; once it is finished, the Mode screen returns.

The default settings are maintained even when the camera is turned off, with the exceptions of Interval Shooting and Auto Bracket settings.

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Section 4 Playing Back/Deleting Still Images, Movies, and Sounds

You can display still images or movies on the LCD Monitor to check them, and delete unwanted ones. You can also hear a recorded sound from the speaker.

It is recommended that you plug in the AC Adapter whenever viewing still images or movies on the LCD Monitor.

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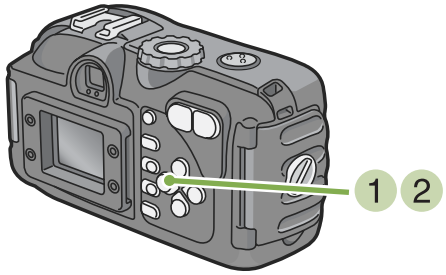
Viewing the Photo You Just Took (Quick Review)

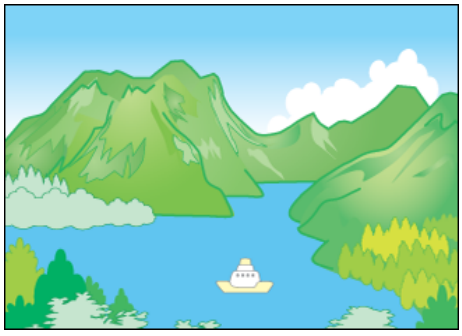
Right after shooting a still image, if you want to see it immediately, you can display the shot in Shooting Mode. This function is called Quick Review.
For movies, the first frame appears as a still image.

To display the still image you just took, follow the steps below.

Buttons used here



1 While still in the Shooting Mode, press the ⟲ (Quick Review) button.
The still image you just took is displayed on the LCD Monitor.



2 Press ⟲ (Quick Review) again and the camera is ready to shoot.

- Once the power is turned off, the Quick Review function can no longer recall the most recently taken image.
- During a quick review, press the shutter button to return to the Shooting screen.
- From an image with date in TEXT Mode, the date can be displayed in Playback Mode only.

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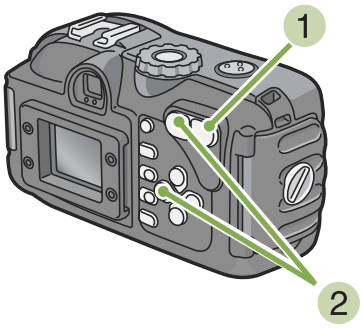
Displaying an Enlarged View of the Still Image Displayed

The still image you displayed with the (Quick Review) button can be displayed enlarged up to 3.4 times using the (Enlarged View) button.

To view still images in the enlarged display mode, follow the steps below.

Buttons used here



1 Press the (Enlarged View) button.

The still image is enlarged. One part of the still image is displayed on the LCD Monitor.

Enlarging	button
Reducing	button
Moving to the part you want to display	▲▼◀▶ button

2 To return to the original display, press the (Thumbnail Display) button for the equal size and then the (Quick Review) button.

Movies cannot be displayed enlarged.

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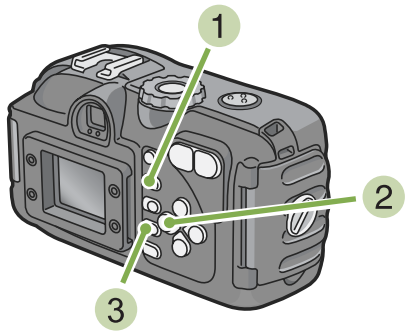
Deleting the Displayed Still Image or Movie

The movie or still image you displayed using the ⏎ (Quick Review) button can be deleted by pressing the 🗑 (DELETE) button.

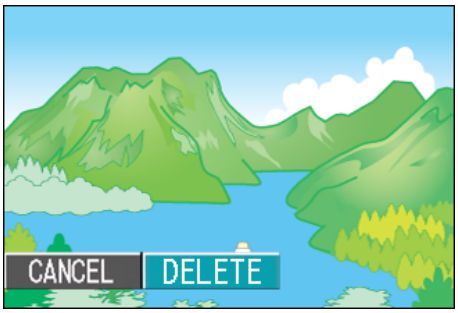
To delete a still image or movie that is displayed, follow the steps below.

Buttons used here



1 **While using the Quick Review function, press the 🗑 (Delete) button.**

2 **Press the ▶ button to select [DELETE].**



3 **Press the OK button.**
The display indicates that deleting is in process; once finished, the shooting screen returns.

For selecting and deleting still images and movies, see P.101.

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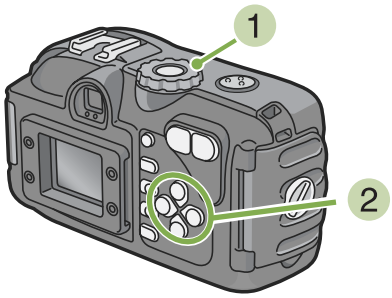
Viewing a Still Image or Movie

Still images and movies you shot are recorded in the internal memory of the camera or on an SD memory card. They can be viewed on the camera's LCD monitor display.

Viewing Still Images Recorded on an SD Memory Card

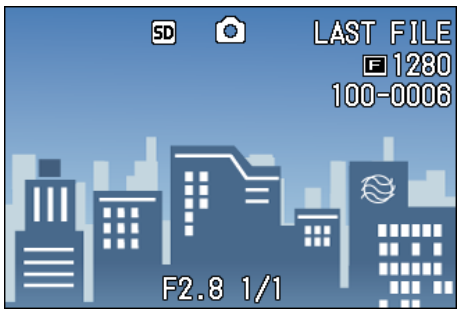
To view still images, follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).

The last still image taken is displayed.
For movies, the first frame is displayed as a still image.



2 Move to the still image you want to view using the ◀▶ buttons.

If you press the ▶ button, you can view the next still image or movie.
If you press the ◀ button, you can view the previous still image or movie.
If you press and hold either the ◀ or the ▶ button, you can move quickly between images.

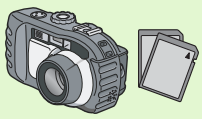
For information displayed on the screen during plays back, see P.23.

When an SD memory card is not inserted, the camera plays back from the internal memory; when an SD memory card is inserted, it plays back from the SD memory card.

When no SD memory card is loaded

▶▶▶▶▶▶ Plays back from internal memory

When an SD Memory Card is loaded



▶▶▶ Plays back from the SD memory card

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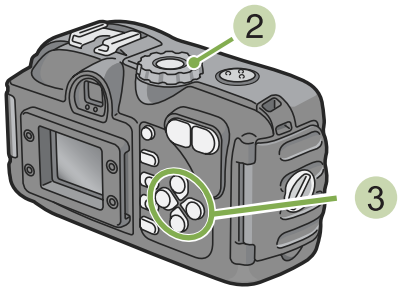
Viewing Still Images Recorded on Internal Memory

To view still images recorded on internal memory, follow the steps below.

Buttons used here



1 If a memory card is loaded, turn off the power, remove the memory card and turn the power back on.

2 Turn the Mode Dial to ▶ (Playback Mode).
The last still image taken is displayed.
For movies, the first frame is displayed as a still image.

3 Move to the still image you want to view using the ◀▶ buttons.
If you press the ▶ button, you can view the next still image or movie.
If you press the ◀ button, you can view the previous still image or movie.
If you press and hold the ◀▶ buttons, you can move quickly between images.

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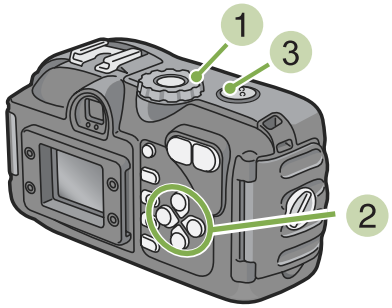
Viewing Movies

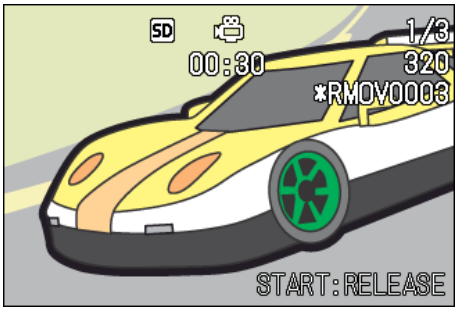
To view movies, follow the steps below.

Buttons used here

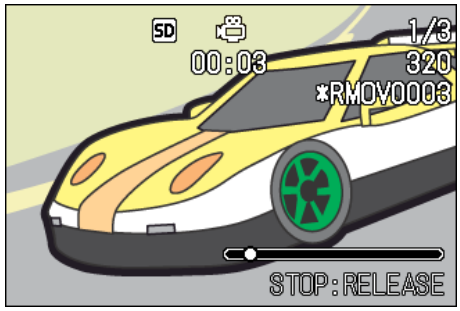


1 Turn the Mode Dial to ▶ (Playback Mode).
The last still image taken is displayed.
For movies, the first frame is displayed as a still image.

2 Move to the movie you want to see using the ◀▶ buttons.
If you press the ▶ button, you can view the next still image or movie.
If you press the ◀ button, you can view the previous still image or movie.



3 Press the shutter button.
Playback begins. The elapsed playback indicator or the elapsed time is displayed on the LCD Monitor.



Fast Forward	Press the [T] (telephoto) button during play.
Rewind	Press the [W] (Wide-Angle) button during play.
Pause/Playback	Press the shutter button.
Slow Playback	Go on pressing the [T] (telephoto) button during pause.
Slow Rewind	Go on pressing the [W] (Wide-Angle) button during pause.
Next frame	Press the [T] (telephoto) button during pause.
Previous frame	Press the [W](Wide-Angle) button during pause.

Adjusting the Movie Sound Volume

To adjust the volume, follow the steps below.

1 Press the ◀▶ buttons.
The volume adjustment bar appears.

2 Press the ▲▼ buttons to adjust the volume.
The volume can be set to nine levels.
The setting will be used until you change it.

Movie Frames
A movie frame is also called a frame. Movies consist of many frames whose images appear to be moving when displayed at high speed.

For information displayed on the screen during playback, see P.23.

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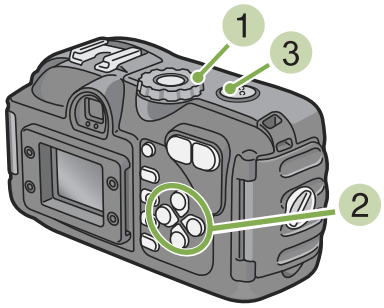
Playing Back Sound

You can play back sound recorded in Voice Memo Mode or recorded with a still image.

Playing Back Sound

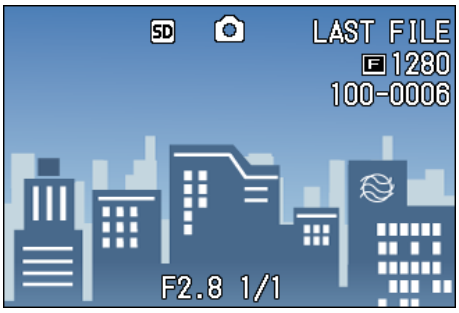
To play back sound recorded in Voice Memo Mode, follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).

The last still image is displayed.



For a movie, the first frame is displayed as a still image.

2 Press the ◀▶ buttons to select a sound file for playback (speaker icon).

Press the ▶ button to display the next file.
Press the ◀ button to display the previous file.
Hold the ◀▶ buttons down for fast positioning.

3 Press the shutter button.

The sound is played back. If the lens is out, it retracts into the camera, and then the sound is played back.

Fast Forward	Press the [T] (telephoto) button during playback.
Rewind	Press the [W] (Wide-Angle) button during playback.
Pause/Play	Press the shutter button.

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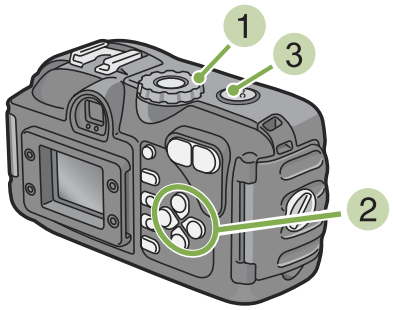
Playing Back Sound recorded with a Still Image

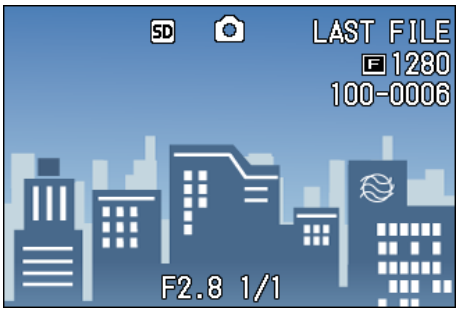
To play back sound attached to a still image, follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).

The last still image is displayed.



For a movie, the first frame is displayed as a still image

2 Press the ◀▶ buttons to select a still image with sound for viewing.

Press the ▶ button to display the next file.
Press the ◀ button to display the previous file.
Hold the ◀▶ buttons down for fast movement.

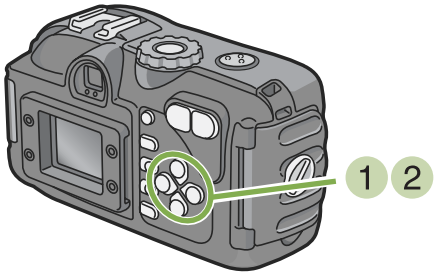
3 Press the shutter button.

Playback starts.
To stop playback, press the shutter button or the ◀ button.

Adjusting the Volume

To adjust the volume, follow the steps below.

Buttons used here



1 Press the ▲▼ buttons.

The volume adjustment bar appears.

2 Press the ▲▼ buttons to adjust the volume.

The volume can be set to nine levels.
The setting will be used until you change it.

• For how to record sound, see P.49.
• For how to shoot a still image with sound, see P.54.

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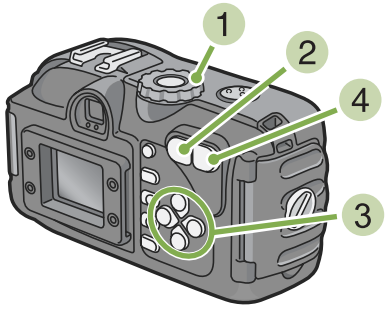
Viewing at a Glance (Thumbnail Display)

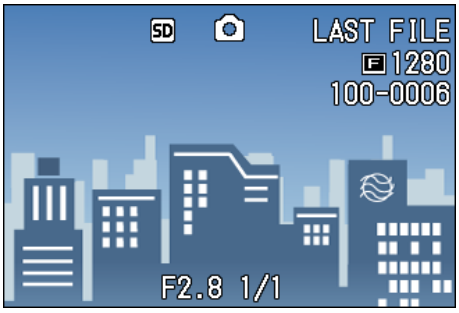
The LCD Monitor screen is split into six thumbnail images, allowing you to view your still images or movies at one glance (Thumbnail Display).

To view the Thumbnail Display and select the still image for viewing, follow the steps below.

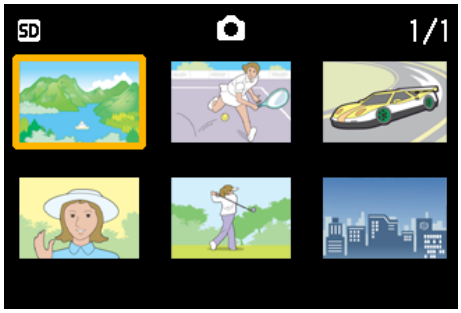
Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).
The last still image taken is displayed.
For movies, the first frame is displayed as a still image.



2 Press the ▦ (Thumbnail Display) button.
The screen is split into six sections. Still images and movies (the first frame) are displayed in a reduced size.



3 Press the ▲▼◀▶ buttons to select the still image or movie you want to display.

4 Press the 🔍 (Enlarged View) button.
The still image or movie you selected is displayed.

In Thumbnail Display mode, text files are displayed in blue.

- For how to select and delete still images in the Thumbnail Display screen, see P.103.
- For how to select and protect (protect against deletion) still images in the Thumbnail Display screen, see P.114.
- For how to select still images and make Print Service settings in the Thumbnail Display screen, see P.118.

Thumbnail Display
A thumbnail display is a reduced display. This is a method commonly used for displaying many images at a glance.

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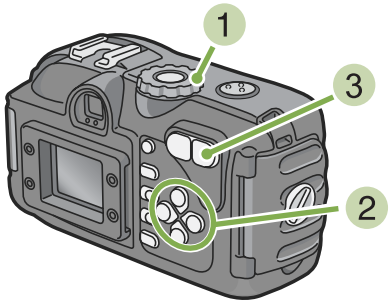
Enlarged Viewing

When you are displaying a still image, if you press the 🔍 (Enlarged View) button, you can display the still image up to 3.4 times larger. If you select a still image or movie you want to see from Thumbnail Display Mode, you can view it normally with just the one shot displayed.

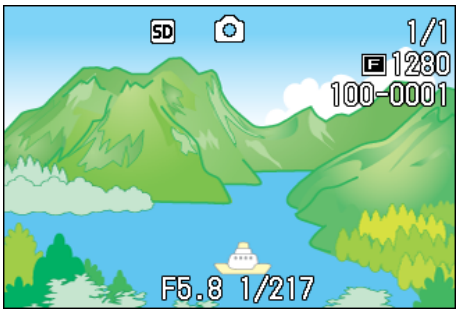
To view still images in Enlarged Display Mode, follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).

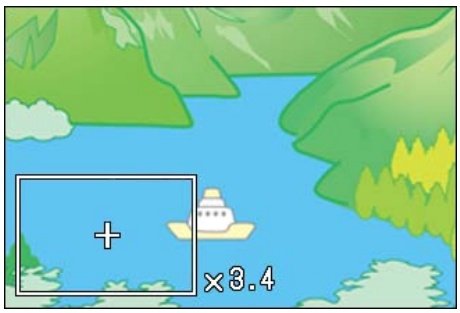
The last still image taken is displayed.



2 Display the still image you want to enlarge.

3 Press the 🔍 (Enlarged View) button.

The still image is enlarged. One part of the still image is displayed on the LCD Monitor.



Press the ▲▼◀▶ buttons to move to the part you want to display.
To return to the original display, press the OK button.

Movies cannot be displayed enlarged.

For how to display still images, see P.91.

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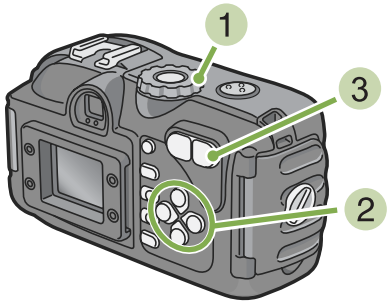
Viewing an S Multi-Shot or M Multi-Shot Still Image in Enlarged Display Mode

When S Multi-Shot or M Multi-Shot still images (16 images in a file) are displayed, one (shot) of the 16 images can be displayed in Enlarged Display Mode. After enlarged display, the display can be fed one shot at a time.

To view a shot from S Multi-Shot or M Multi-Shot still images in Enlarged Display Mode, follow the steps below.

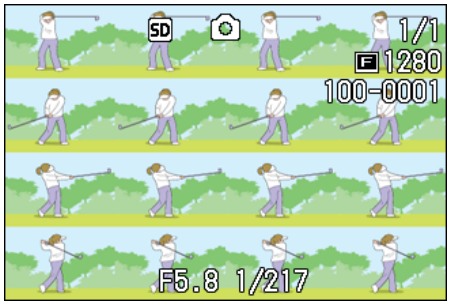
Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).

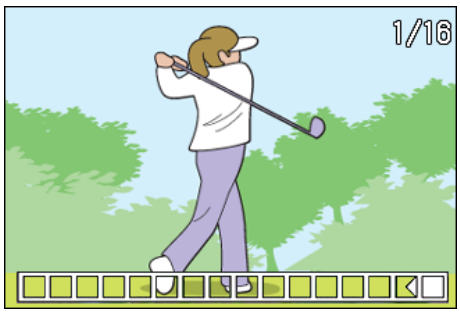
The last still image is displayed.

2 Display an S Multi-Shot or M Multi-Shot still image.



3 Press the 🔍 (Enlarged Display) button.

The first one step of consecutive images is displayed in Enlarged Display Mode. The shot position bar appears at the lower part of the LCD monitor.



Press the ◀▶ buttons to feed the shot.
To return to the 16-shot display, press the OK button.

Press the DISP button to turn on or off the bar display at the lower part of the LCD monitor.

For how to shoot images in S Multi-Shot or M Multi-Shot mode, see P.42.

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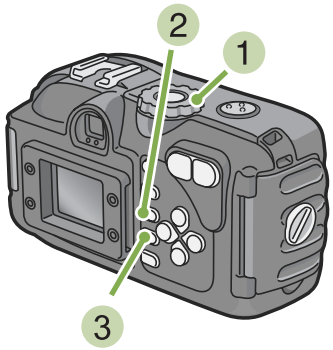
Showing Photos in Order Automatically (SLIDE SHOW)

You can show the recorded still images, movies, and sound files sequentially on the LCD Monitor. This function is called a slide show.

To view a slide show, follow the steps below.

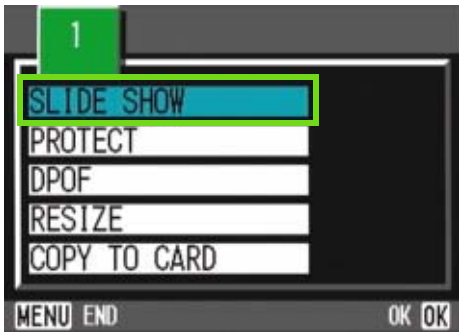
Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).
The last still image taken is displayed.

2 Press the MENU button.
The Playback menu is displayed.

3 Confirm you are selecting [SLIDE SHOW] and then press the OK button.



The slide show starts and files are played back in order.
If you want to stop the slide show in progress, press any button on the camera.
Until stopped, the slide show will repeat itself.

- Still images are displayed for 3 seconds each.
- For movies, not just one frame, but the entire movie you shot is displayed.
- Sound files are also played back.

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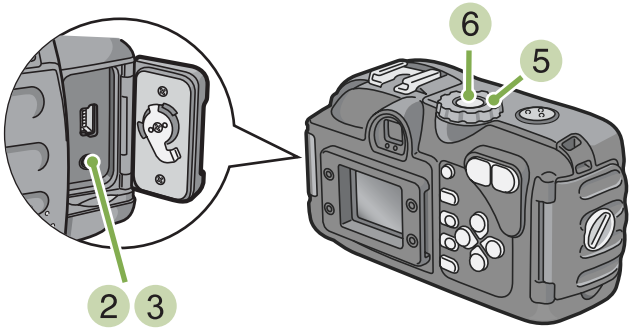
Viewing on a Television

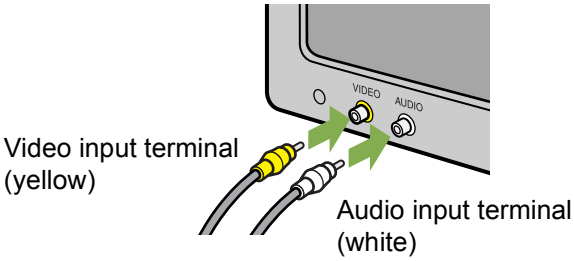
You can also view the still images and movies you have taken on a TV screen. The camera displays everything on the TV screen just as on its LCD Monitor.
To use your television for viewing, connect your camera to the television with the AV cable that came with your camera.

To view still images and/or movies on a television, follow the steps below.

Buttons used here

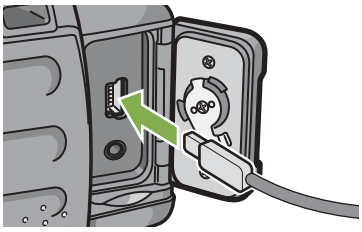


1 Securely connect the AV cable to the Video In terminal on the television.
Connect the white plug of the AV cable to the audio input terminal (white) of the TV unit and the yellow plug to the video input terminal (yellow).



2 Make sure the power is off.

3 Turn the terminal cover knob of the camera in the direction of the arrow to open the cover, and then connect the AV cable securely to the video output terminal.



4 Set the television to "Video" mode. (Set the input to "Video".)
For details, please refer to the operation manual for the television.

5 Turn the camera's Mode Dial to ▶ (Playback Mode).

6 Turn your camera on by pressing the power button.

- If you connect the AV cable to your video recorder's In terminal, you can record what you have shot onto video.
- Your camera is set to NTSC playback format (used in Japan and other countries) for use with television equipment, etc. If the equipment you want to connect to uses PAL format (used in Europe and elsewhere), then switch your camera to PAL format in the Setup Menu before connecting.
- Connecting the AV cable to the camera turns off the LCD monitor display and the speaker output.

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Deleting Unwanted Still Images/Movies/Sounds

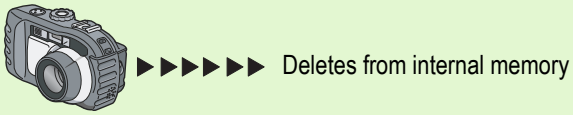
You can easily delete still images, movies, and sounds that have not come out right.
The following are the three ways to delete photos:

- **One shot at a time**
- **All frames at once**
- **Select multiple frames to delete together**

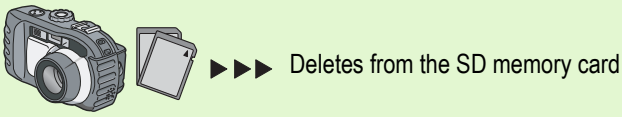
Still images and movies set to Protect cannot be deleted.

When an SD memory card is not inserted, the camera deletes still images, movies, or sounds from the internal memory; when an SD memory card is inserted, it deletes them from the memory card.

When no SD memory card is loaded



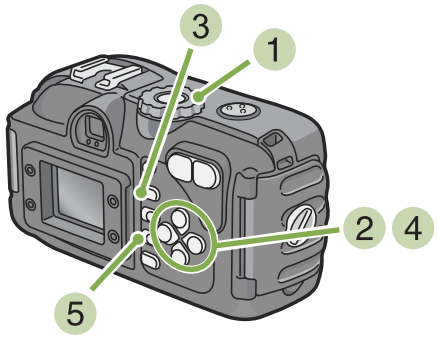
When an SD memory card is loaded



Deleting One Still Image

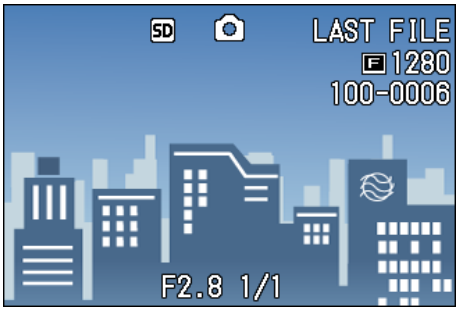
To delete a still image, movie, or sound, follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).

The last still image taken is displayed.



2 Display the still image, movie, or sound you want to delete.

3 Press the 🗑(Delete) button.

4 Press the ▶ button to select [DELETE ONE].

5 Press the OK button.

The display indicates deletion is in progress; once finished, the display reverts to the playback screen.

- For how to delete a still image displayed with the ⧉ (Quick Review) button, see P.88.
- For how to display still images (or movies), see P.91.
- For how to playback sounds, see P.94.
- For how to protect still images (or movies or sounds), see P.111.

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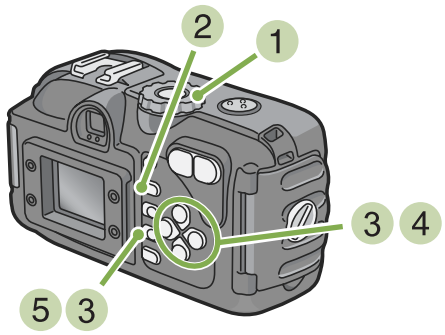
Deleting All Frames at Once

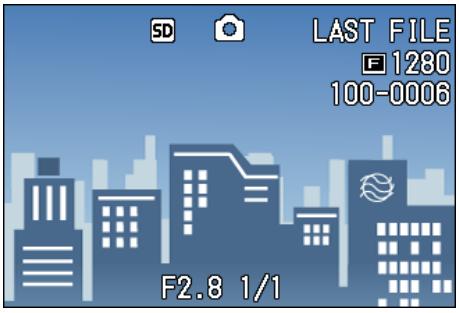
To delete all still images, movies, or sounds follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).

The last still image taken is displayed.

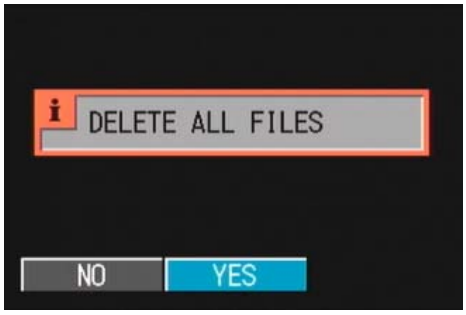


2 Press the 🗑 (Delete) button.

3 Press the ▶ button to select [DELETE ALL] and press the OK button.

A screen appears to confirm the deletion.

4 Press the ▶ button to select [YES].



5 Press the OK button.

The display indicates deletion is in process; once finished, the playback screen returns.

- For how to display still images (or movies), see P.91.
- For how to playback sounds, see P.94.
- For how to protect still images (or movies), see P.111.

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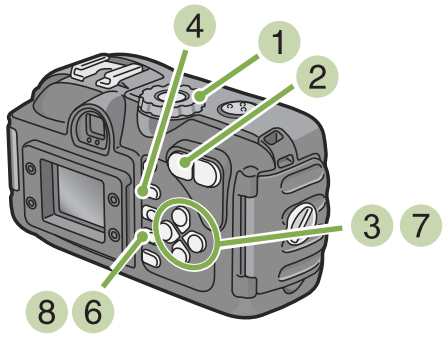
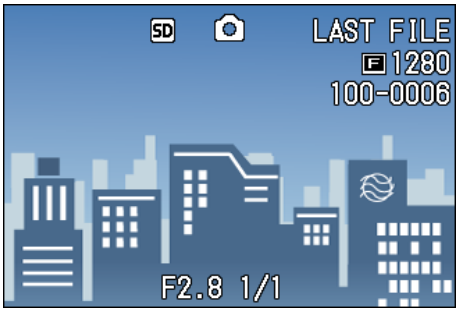
Deleting Multiple Frames at Once

To delete selected still images, movies, or sounds all at once, follow the steps below.

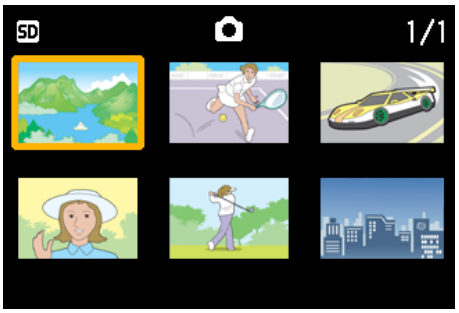
Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).
The last still image taken is displayed.

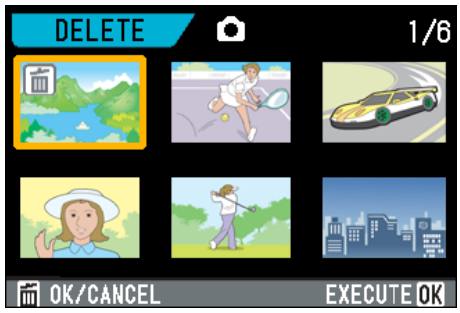


2 Press the ▦ (Thumbnail Display) button.
The screen is split into six sections. Still images, movies (the first frame), and sounds (🎙) are displayed in a reduced size.



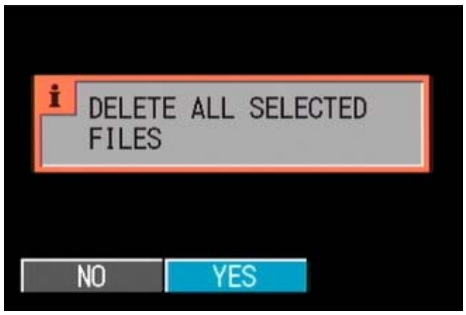
3 Press the▲▼◀▶ buttons to select the still images, movies, or sounds you want to delete.

4 Press the 🗑 (Delete) button.
The trash symbol appears in the upper left of the still image, movie, or sound.



5 Repeat Steps 3 and 4 to select all the still images, movies, and sounds you wish to delete.
If you selected an image by mistake, you can deselect it by selecting the image and pressing the 🗑(Delete) button again.

6 Press the OK button.
A screen appears to confirm the deletion.



7 Press the ▶ button to select [YES].

8 Press the OK button.
The display indicates deletion is in progress; once finished, the Thumbnail Display screen returns.

For details on thumbnail display, see P.96.

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Section 5 Direct Printing

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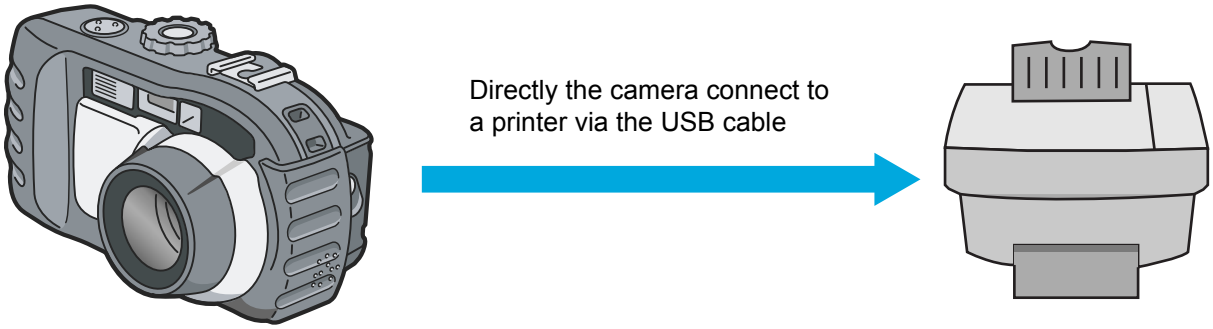
About the Direct Print Function

The Direct Print standard enables direct printing from a camera to a printer, by connecting them via a USB cable. Photos can be printed quickly and easily from your digital camera without using a computer.

You cannot the print movies (.AVI) with the function. For still images with sounds (.JPG and .WAV), only the still images (.JPG) are printed.

- This camera uses PictBridge, an industry standard for Direct Printing.
- Your printer must be PictBridge compliant to use the Direct Print function. For support information, see the documentation that came with the printer.
- Some printers can print text (.TIF) as well as still images (.JPG). For details, see the documentation that came with the printer.



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Sending Images to a Printer for Printing

You can send images from the camera to a PictBridge compliant printer to print them. Images are sent from the internal memory when no SD memory card is loaded or from an SD memory card when one is installed.

The following three kinds of direct printing are supported:

- **Printing one image**
- **Printing all images from the camera**
- **Printing several selected images**

Do not disconnect the USB cable during printing.

If a printer error message appears during transmission, check the condition of the printer, and take the appropriate action.

Connecting the Camera to a Printer

Connect your camera to a printer using the USB cable provided.

1 Check that the camera power is off.

2 Check that the printer power is off.
Load paper into the printer and check that the printer is ready to print.

3 Connect one end of the USB cable provided to the USB port of your printer.

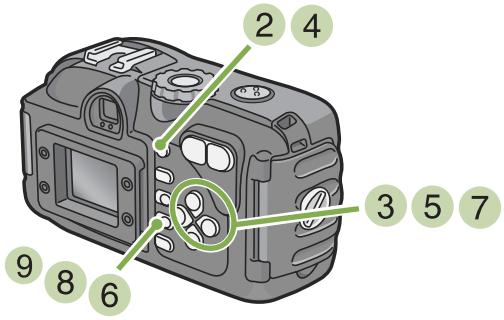
4 Connect the other end of the USB cable to the USB terminal on your camera.
The camera power automatically turns on.

5 Turn the printer power on.

To disconnect the camera from the printer, check that the power of both units is off before disconnecting the USB cable between them.

Printing One Image

Buttons used here



1 Check that the printer is ready for printing.
The "Connecting" screen appears.

2 Press the ADJ. button.
The "Connecting" screen appears. When the connection between the printer and the camera is established, the Direct Print playback mode screen appears.
For some printers, the "Connecting" screen automatically appears before you press the ADJ. button.
The LCD monitor displays the last image you shot.

3 Press the ◀▶ buttons to select an image for printing.

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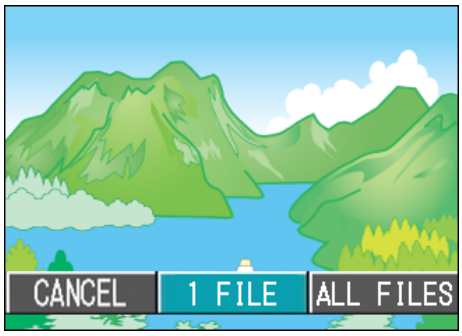
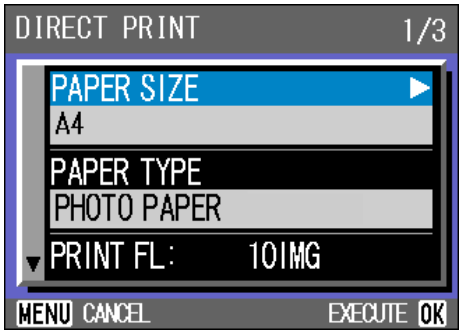
4 Press the ADJ. button.

5 Press the ▶ button to select [1 FILE].



6 Press the OK button.
The Direct Print menu appears.

7 Press the ▲▼ buttons to select an item, and then press the ▶ button to display the detailed options screen.



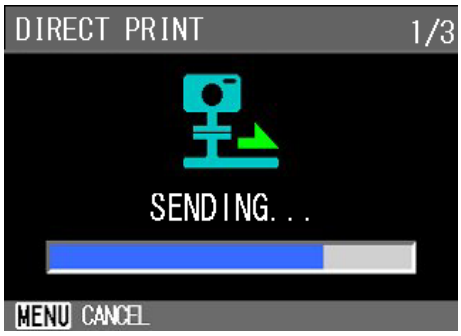
The following items are available:

Item Name	Function
PAPER SIZE	Sets the paper size.
PAPER TYPE	Sets the paper type.
LAYOUT	Sets the number of images printed on a sheet of paper.
DATE PRINT	Selects whether to print the date. The date format can be set using the date/time option in the Setup Mode.
FILE NAME PRINT	Selects whether to print the file name.
OPTIMIZE IMAGE	Selects whether to optimize the image data prior to printing on the printer.

- The items available vary depending on the functions of the printer.
- If there are no options available for an item, the detailed options screen does not appear even if you press the ▶ button. Also, items that are not available on the printer do not appear.
- To print images using the printer's default settings, select Printer Setting on the detailed options screen.

8 Press the OK button.
The display returns to the Direct Print menu.

9 Press the OK button.
The image is sent to the printer and the "Connecting" screen appears.



Press the MENU button to cancel.
At the end of transmission, the display returns to the Direct Print playback mode screen and printing starts.

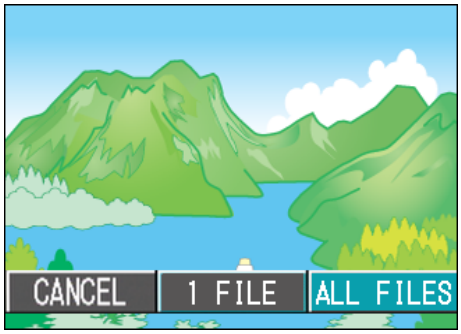
Printing All Images

1 Check that the printer is ready for printing.
The "Connecting" screen appears.

2 Press the ADJ. button.
The "Connecting" screen appears. When the connection between the printer and the camera is established, the Direct Print playback mode screen appears.
For some printers, the "Connecting" screen automatically appears before you press the ADJ. button.
The LCD monitor displays the last image you shot.

3 Press the ADJ. button.
The Direct Print menu appears.

4 Press the ▶ button to select [ALL FILES].



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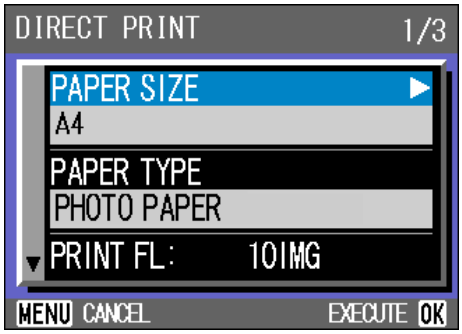
5 Press the OK button.
The Direct Print menu appears.

6 Press the ▲▼ buttons to select an item, and then press the ▶ button to display the detailed options screen.



The following items are available:

Item Name	Function
PAPER SIZE	Sets the paper size.
PAPER TYPE	Sets the paper type.
LAYOUT	Sets the number of images printed on a sheet of paper.
DATE PRINT	Selects whether to print the date. The date format can be set using the date/time option in the Setup Mode.
FILE NAME PRINT	Selects whether to print the file name.
OPTIMIZE IMAGE	Selects whether to optimize the image data prior to printing on the printer.

- The items available vary depending on the functions of the printer.
- If there are no options available for an item, the detailed options screen does not appear even if you press the ▶ button. Also, items that are not available on the printer do not appear.
- To print images using the printer's default settings, select Printer Setting on the detailed options screen.

7 Press the OK button.
The display returns to the Direct Print menu.

8 Repeat steps 6 and 7 to change the settings as required.

9 Press the OK button.
All images are sent to the printer and the "Sending" screen appears.
Press the MENU button to cancel.
Upon completion of the transmission of the images for a page, printing starts.
When all the images have been sent from the camera to the printer, the camera display returns to the Direct Print playback mode screen.

Printing Several Images

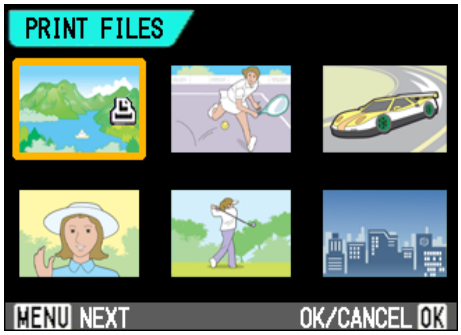
1 Check that the printer is ready for printing.
The "Connecting" screen appears.

2 Press the ADJ. button.
The "Connecting" screen appears. When the connection between the printer and the camera is established, the Direct Print playback mode screen appears.
For some printers, the "Connecting" screen automatically appears before you press the ADJ. button.
The LCD monitor displays the last image you shot.

3 Press the ⊞ (Thumbnail Display) button.
The screen is split into six sections and each image is displayed at a reduced size.

4 Press the ▲▼◀▶ buttons to select an image for printing.

5 Press the OK button.
A printer mark appears at the upper right of the image.



Only images with a printer mark are printed. When you cancel printing and then try to print again, make sure that the printer mark is on the images you want to print.

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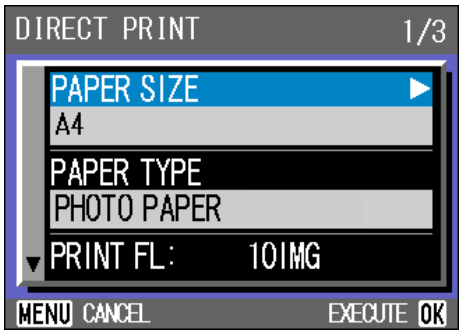
6 Repeat steps 4 and 5 to select all the images to be printed.

7 Press the MENU button.
The Direct Print menu appears.

8 Press the ▲▼ buttons to select an item, and then press the ▶ button to display the detailed options screen.



The following items are available:

Item Name	Function
PAPER SIZE	Sets the paper size.
PAPER TYPE	Sets the paper type.
LAYOUT	Sets the number of images printed on a sheet of paper.
DATE PRINT	Selects whether to print the date. The date format can be set using the date/time option in the Setup Mode.
FILE NAME PRINT	Selects whether to print the file name.
OPTIMIZE IMAGE	Selects whether to optimize the image data prior to printing on the printer.

- The items available vary depending on the functions of the printer.
- If there are no options available for an item, the detailed options screen does not appear even if you press the ▶ button. Also, items that are not available on the printer do not appear.
- To print images using the printer's default settings, select Printer Setting on the detailed options screen.

9 Press the OK button.
The display returns to the Direct Print menu.

10 Repeat steps 8 and 9 to change the settings as required.

11 Press the OK button.
The selected images are sent to the printer and the "Connecting" screen appears.
Press the MENU button to cancel the operation.
Upon completion of transmission of images for a page, printing starts.
When all the selected images have been sent from the camera to the printer, the camera display returns to the Direct Print playback mode screen.

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Section 6 About Other Functions

The camera has functions to protect still images and movies from being inadvertently deleted, to copy those from the internal memory onto a memory card, and to set still images for a Print Service.
These management functions are explained here.

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Write-protecting Your Images (PROTECT)

You can protect still images from being accidentally deleted.
There are 3 methods of making Protect settings:

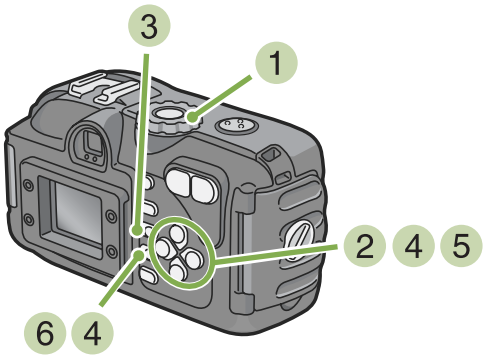
- **One shot at a time**
- **All frames at once**
- **Select multiple frames to protect together**

Protected still images, movies, and sounds cannot be deleted normally. However, they will be deleted completely if you format the memory where the files are stored.

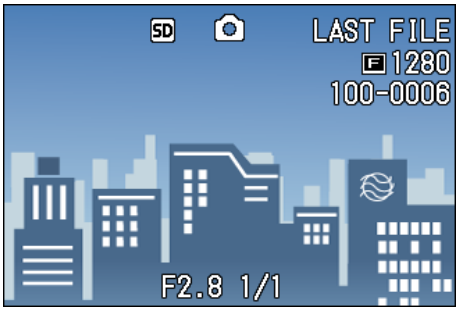
Protecting the Displayed Still Image

To protect a still image, movie, or sound, follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).
The last still image taken is displayed.



2 Display the still image, movie, or sound you want to protect.

3 Press the MENU button.
The Playback menu is displayed.

4 Press ▼ button to select [PROTECT] and then press the OK button.

5 Press the ▶ button to select [1 FILE].

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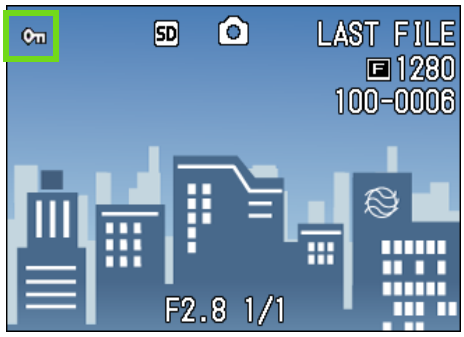
6 Press the OK button.

When set to Protect, the Protect symbol appears in the upper-left corner of the screen.



The procedure for releasing protection from one file at a time is the same as that for setting protection.

- For how to display still images (or movies), see P.91.
- For how to playback sounds, see P.94.
- To set/remove protection of all still images (or movies) at once, see P.113.
- To set/remove protection of selections made on the Thumbnail Display screen, see P.114.

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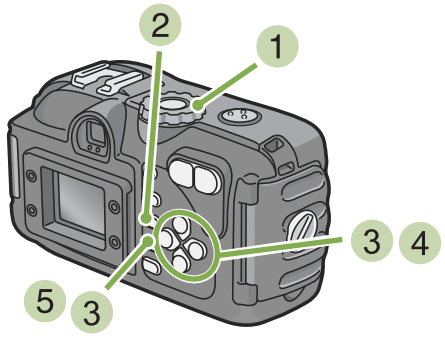
Protecting All Still Images

To protect all your still images, movies, or sounds, follow the steps below.

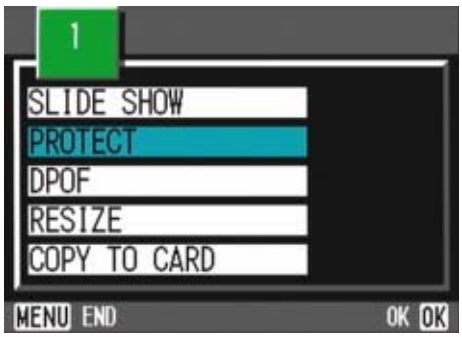
Buttons used here



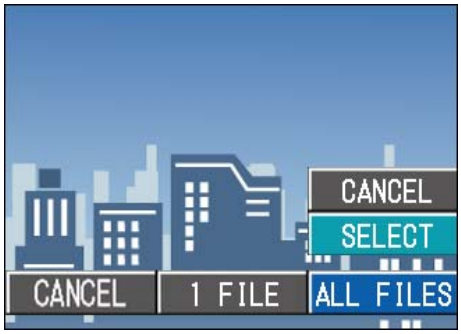
1 Turn the Mode Dial to ▶ (Playback Mode).

2 Press the MENU button.
The Playback menu is displayed.

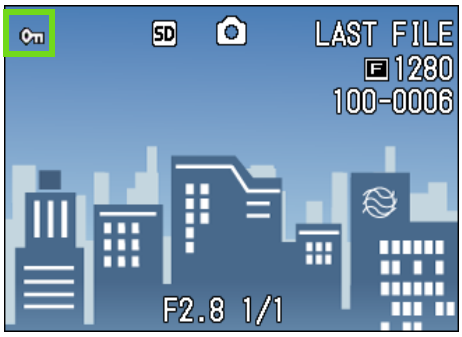
3 Press the ▼ button to select [PROTECT] and then press the OK button.



4 Press the ▶ button to select [ALL FILES].



5 Confirm you are choosing [SELECT] and then press OK.
When set to Protect, the Protect symbol appears in the upper-left corner of the screen.



- To remove protection from all your still images, movies, or sounds, select [CANCEL] in step 5 .
- You can remove protection from all or multiple images, movies, or sounds at once.

- To remove protection for one still image at a time, see P.111.
- To set/remove protection of selections made on the Thumbnail Display screen, see P.114.

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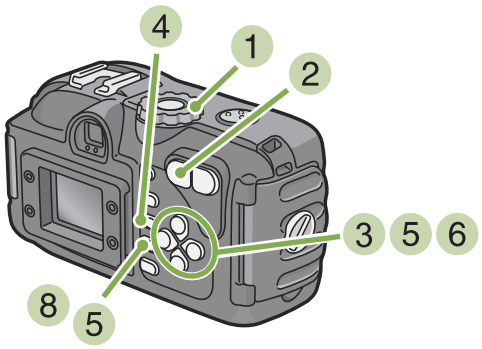
Protecting Multiple Still Images, Movies, or Sounds at Once

To protect selected still images, movies, or sounds all at once, follow the steps below.

Buttons used here



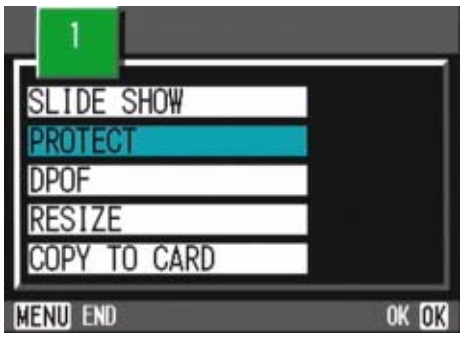
1 Turn the Mode Dial to ▶ (Playback Mode).

2 Press the ▪ (Thumbnail Display) button.
The screen is split into six sections and thumbnail images are displayed in a reduced size.

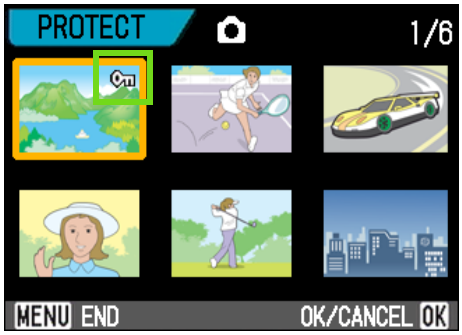
3 Press the ▲▼◀▶buttons to select the still image, movie, or sound you want to display.

4 Press the MENU button.
The Playback menu appears.

5 Press the ▼ button to select [PROTECT] and then press the OK button.



6 Press the ▲▼◀▶ buttons to select the still image, movie, or sound you wish to protect and press the OK button.
The Protect symbol appears in the upper-right corner of the first still image, movie, or sound.



7 Repeat Step 6 to select all the still images, movies, and sounds you wish to protect.
If you selected an image by mistake, you can deselect by selecting the image and pressing the OK button again.

8 Press the MENU button.
A message appears indicating that the images are being protected. When protection is complete, the display returns to the Thumbnail Display screen.

To remove protection from multiple still images, movies, or sounds, follow the same steps described above to select them and remove protection.

- For details on thumbnail display, see P.96.
- To remove protection for one still image at a time, see P.111.
- To remove all protection at once, see P.113.

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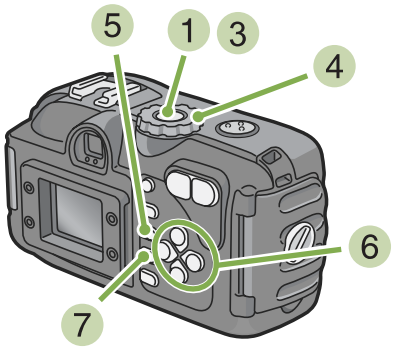
Copying the Contents of Internal Memory to a Memory Card (COPY TO CARD)

You can copy all the movie, still image, and sound data stored in internal memory onto an SD Memory Card at once.

To copy still images, movies, and sounds from internal memory to SD Memory Card, follow the steps below.

Buttons used here



1 Turn your camera off by pressing the power button.

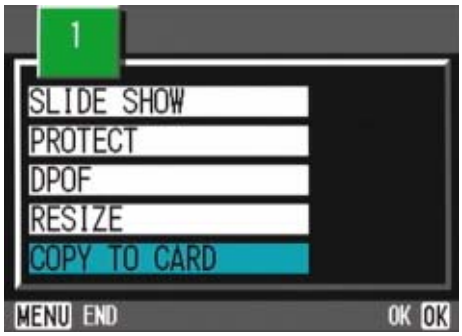
2 Insert the SD Memory Card.

3 Turn the camera on.

4 Turn the Mode Dial to ▶ (Playback Mode).

5 Press the MENU button.
The Playback menu appears.

6 Press the ▼ button to select [COPY TO CARD].



7 Press the OK button.
The display indicates copying is in progress; once finished, the playback screen returns.

- If the capacity of the SD Memory Card you are copying to is insufficient, a message will be displayed indicating there is not enough capacity. To copy only the number of shots that will fit into the available capacity, select [YES] and then press the OK button. To cancel copying, select [NO] and then press the [OK] button.
- It is not possible to copy from a Memory Card to internal memory.

For how to insert an SD Memory Card, see P.18.

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Using a Printing Service (DPOF: Dee-Pof)

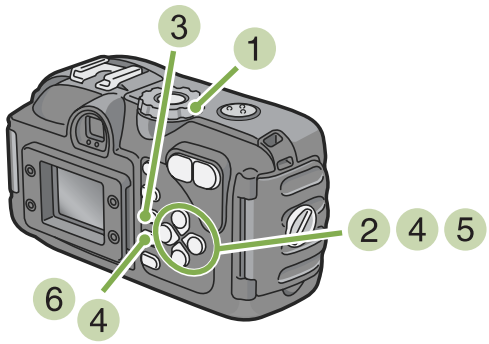
The still images recorded on SD Memory Card can be printed out if you take them to a shop that offers a digital camera print service. To use a print service, it is necessary to make settings required for printing. These settings are called DPOF (Dee-Pof) settings.
There are three methods of making DPOF settings:

- **Set one shot at a time**
- **Set for All Still Images**
- **Select multiple shots to set together**

Setting DPOF for the Still Image Displayed

To make DPOF settings for one still image, follow the steps below.

Buttons used here

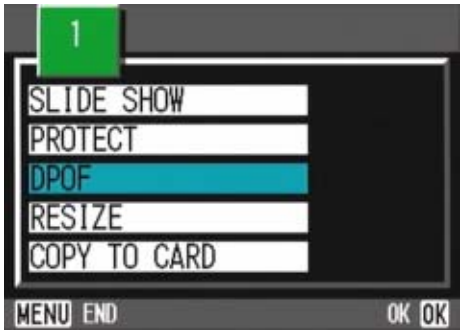


1 Turn the Mode Dial to ▶ (Playback Mode).

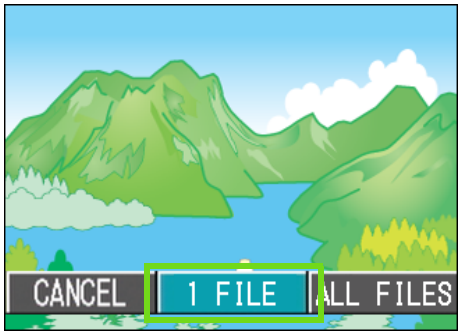
2 Display the still image you want to specify.

3 Press the MENU button.
The Playback menu is displayed.

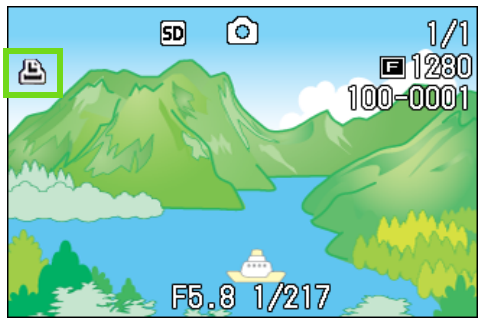
4 Press ▼ button to select [DPOF] and then press the OK button.



5 Press the ▶ button to select [1 FILE].



6 Press the OK button.
Once the DPOF setting is made, the DPOF symbol appears in the upper-left portion of the screen.



- Removing the DPOF setting for one photo at a time is done in the same way as setting it.
- You can specify one print per still image with this function.

- To display a still image, see P.90.
- For how to release all DPOF settings at once, see P.116.

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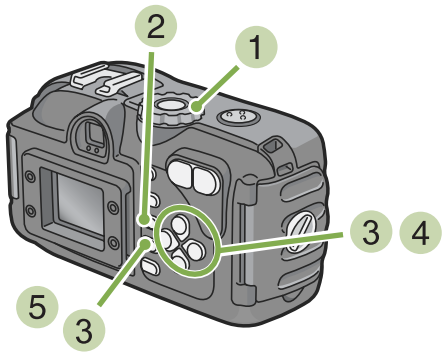
Setting DPOF for All Still Images

To apply DPOF settings to all your still images, follow the steps below.

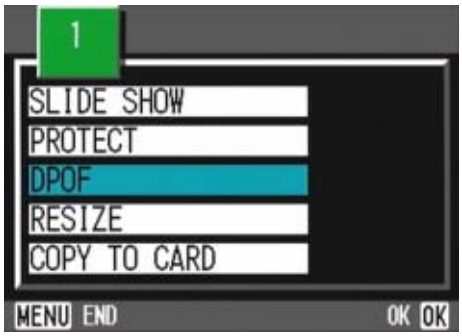
Buttons used here



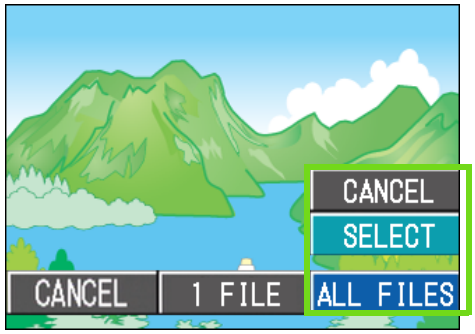
1 Turn the Mode Dial to ▶ (Playback Mode).

2 Press the MENU button.
The Playback menu appears.

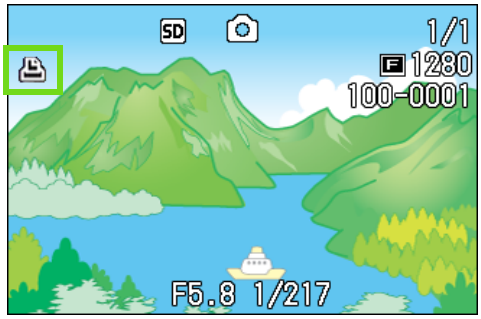
3 Press ▼ button to select [DPOF] and press the OK button.



4 Press the ▶ button to select [ALL FILES].



5 Confirm that you have chosen [SELECT].
Once the DPOF setting is made, the DPOF symbol appears in the upper-left portion of the screen.



- To remove the DPOF setting from all your still images, select [CANCEL] in step 5 .
- You can remove all or multiple still image DPOF settings at once.

- To remove the DPOF setting for 1 still image at a time, see P.116.
- To remove the DPOF settings of selections made on the Thumbnail Display screen, see P.118.

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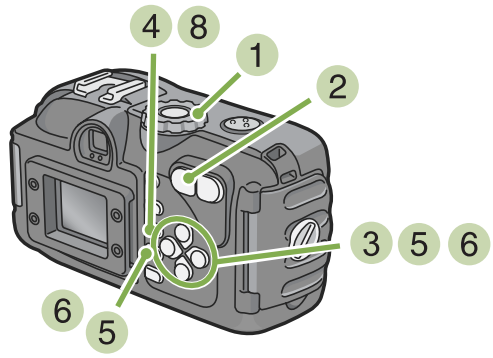
Setting DPOF for Multiple Still Images

To make the DPOF setting for selected still images all at once, follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).

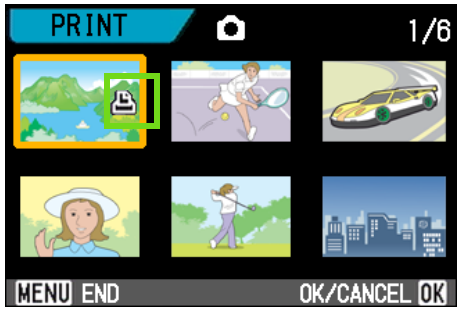
2 Press the ▦ (Thumbnail Display) button.
The screen is split into six sections with the still images displayed at a reduced size.

3 Press the ▲▼◀▶ buttons to select the first still image for which you wish to make the DPOF setting.

4 Press the MENU button.
The Playback menu appears.

5 Press the ▼ button to select [DPOF] and then press the OK button.
The DPOF symbol appears in the upper-right portion of the first still image.

6 Press the ▲▼◀▶ buttons to select the next still image you wish to set to DPOF, and then press the OK button.
The DPOF symbol appears in the upper-right portion of the first still image.



7 Repeat Step 6 to select all the still images for which you wish to make the DPOF setting.
If you selected an image by mistake, you can deselect it by selecting the image and pressing the OK button again.

8 Press the MENU button.
The display indicates that the selected images are being processed; once finished, the display returns to the Thumbnail Display screen.

• For how to cancel the DPOF setting for 1 still image at a time, see P.116.
• For how to cancel the DPOF settings on the Thumbnail Display screen, see P.118.

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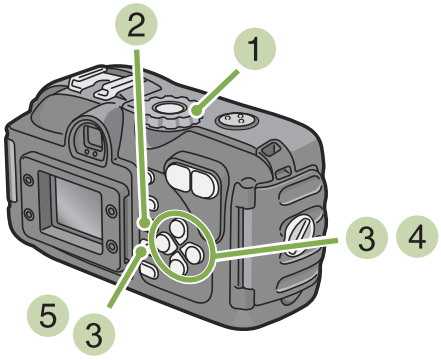
Changing the Image Size (RESIZE)

You can reduce the size of a shot still image to create a file of a different image size.
The selectable image sizes are 640 x 480 and 1280 x 960 in Normal Mode.

An image once resized cannot be returned to its original size.

To change the image size, follow the steps below.

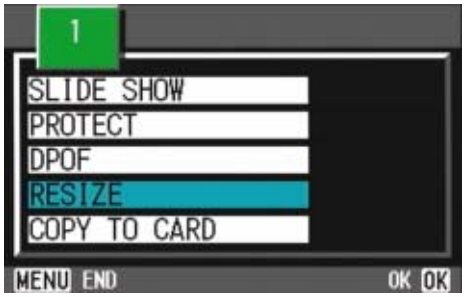
Buttons used here



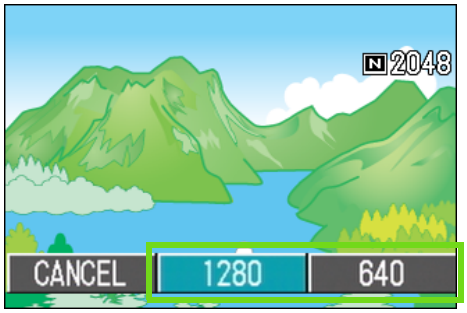
1 Turn the Mode Dial to ▶ (Playback Mode).

2 Press the MENU button.
The Playback menu appears.

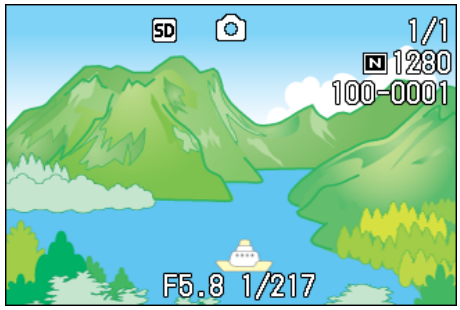
3 Press the ▼ button to select [Resize], and then press the OK button.



4 Press the ▶ button to select [1280] or [640].



5 Press the OK button.
The image size is changed and the resized still image is displayed.



- You can resize only still images and still images with voice memos. Movies cannot be resized.
- The following types of resizing are possible:
  F2048/N2048 to N1280, N640
  F1280/N1280 to N640

For how to change the image size at shooting, see P.71.

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Section 7 Changing Camera Settings

This section explains how to make changes to the camera's settings

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Getting the SD Memory Card Ready for Use (CARD FORMAT)

If an error message "This card cannot be used." is displayed, or if you have formatted a card with a computer or some other device, it will be necessary to format the SD Memory Card prior to use.

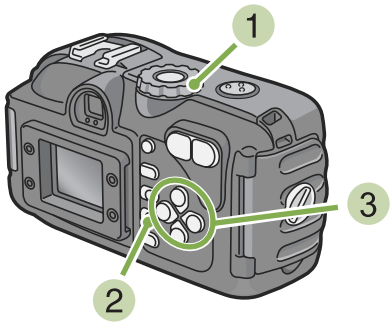
If you format a card that still has images stored on it, the images will be lost.

- Formatting a memory card does not clear a camera memo list.
- If there is more than one camera memo list file stored in a memory card, formatting the card clears any camera memo lists other than the current one.

For how to format internal memory, see P.115.

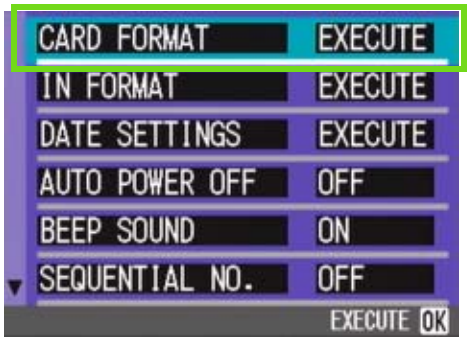
To format an SD Memory card, follow the steps below.

Buttons used here



1 Turn the Mode Dial to SETUP (Setup Mode).
The Setup Screen appears.

2 Select [CARD FORMAT] and then press the OK button.
A screen appears to confirm formatting.



3 Press the ▶ button to select [YES] and then press the OK button.

Formatting starts. When it finishes the SETUP screen returns.
If an SD Memory Card is not loaded, a message will be displayed. After turning the power off, load an SD Memory Card and repeat the formatting process again.

Write-protecting Your Images

If you move the card's write-protection switch to LOCK, your still images cannot be accidentally erased and the card cannot be formatted. If you return the switch to the former position, it is once again possible to erase images and format the card.

Formatting
Formatting is the process of preparing a card so image data can be written on it. This is also called initialization.

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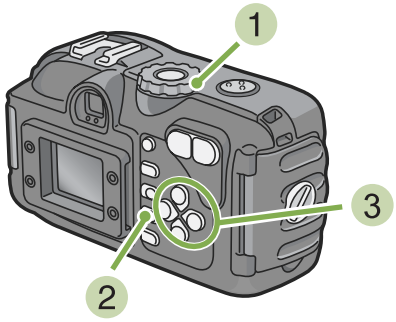
Formatting Internal Memory (IN FORMAT)

If an error message "Format the internal memory" is displayed, it will be necessary to format the internal memory prior to use.

Formatting the internal memory erases all of the images recorded in the memory. If you have images that you do not want to erase stored on the internal memory, please contact the Ricoh Service offices prior to formatting it.

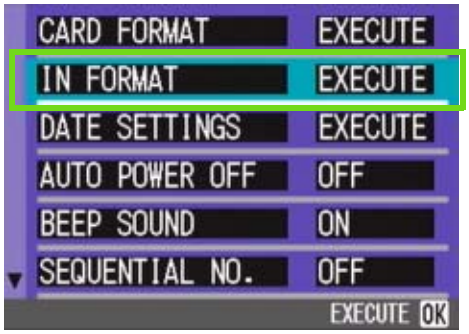
To format an SD Memory card, follow the steps below.

Buttons used here



1. **Turn the Mode Dial to SETUP (Setup Mode).**
   The Setup Screen appears.

2. **Select [IN FORMAT] and then press the OK button.**
   A screen appears to confirm formatting.



3. **Press the ▶ button to select [YES] and press the OK button.**

Formatting starts. When it finishes, the SETUP screen returns.

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Changing Auto Power-Off Settings (AUTO POWER OFF)

If you do not operate the camera for the set period of time, it will shut off automatically (Auto Power-off) to conserve battery power.
At the time of purchase, Auto Power-Off is set to one minute, but you can change this setting.

Possible Settings

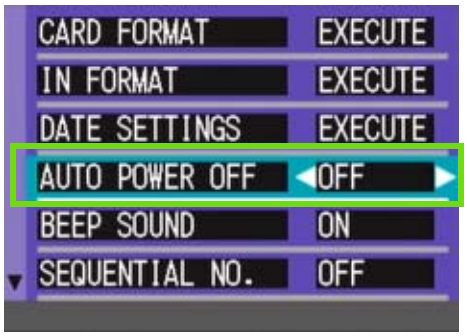
OFF (The Auto Power-Off function does not work)
1 Minute (Default)
5 Minutes
30 Minutes

To change the Auto Power-Off setting, follow the steps below.

1 Turn the Mode Dial to SETUP (Setup Mode).

The Setup Screen appears.

2 Press the ▼ button to select [AUTO POWER OFF].



3 Press the ◀▶ buttons to select the desired setting.

This setting will be used until you change it.

- When Auto Power-Off turns off the camera, just press the power button again to turn it on and resume use.
- The Auto Power-off function does not work when the camera is connected to a computer.
- When shooting with Interval Shooting, settings made here are not valid and Auto Power-Off does not work.

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Beep at Recording (BEEP SOUND)

When you shoot an image, it is immediately recorded to internal memory or SD Memory Card. When recording, your camera makes a beep sound to let you know it is recording.
You can set the camera so it does not make this sound.

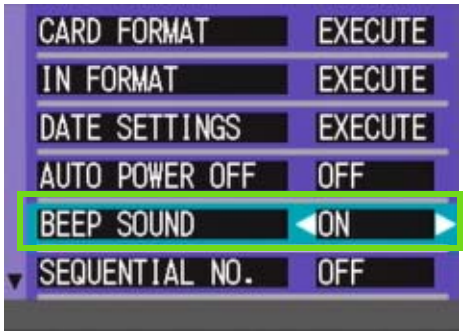
Possible Settings

ON (Make sound) (Default)
OFF (Silent)

To make changes to the beep sound, follow the steps below.

1. **Turn the Mode Dial to SETUP (Setup Mode).**
   The Setup Screen appears.

2. **Press the ▼ button to select [BEEP SOUND].**



3. **Press the ◀▶ buttons to select the desired setting.**

   This setting will be used until you change it.

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Changing File Name Settings (SEQUENTIAL NO.)

When you shoot a still image, it is stored on an SD Memory Card or in internal memory, with a consecutively numbered file name automatically assigned.
When you are switching SD Memory Cards, you can set your camera to continue consecutive numbering from the previously loaded SD Memory Card.

Possible Settings

ON (Continue numbering)
File names will be automatically assigned to still images you take, in the format of "R" followed by 7 digits, from R0010001.jpg to R9999999.jpg.
With this setting, even when one SD Memory Card is switched with another, consecutive file numbering from the previous card is continued.

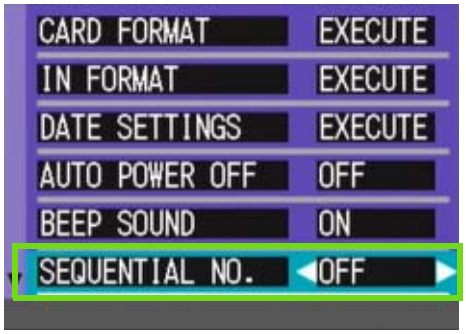
OFF (Do not continue numbering) (Default)
Every time a new card is loaded, file numbering is assigned, from RIMG0001.jpg to RIMG9999.jpg.
If numbering exceeds RIMG9999, further recording is not possible.

To make changes to file numbering, follow the steps below.

1 Turn the Mode Dial to SETUP (Setup Mode).

The Setup Screen appears.

2 Press the ▼ button to select [SEQUENTIAL NO.].



3 Press the ◀▶ buttons to select the desired setting.

This setting will be used for shooting until you change it.

- When you are recording to internal memory, file names are assigned just as when [SEQUENTIAL NO.] is set to [OFF].
- When transferring images to a computer, if a file already exists with the same name in the destination folder, your image is renamed before saving to avoid overwrite problem.
- When transferring images to a computer via RicohGate, the files are assigned names like RIMG****.jpg (xxxx indicates the number of the image), even if "SEQUENTIAL NO." is set to ON.

Extension

The characters "jpg" following the period in a file name are called the extension and indicate file's type. A type of "jpg" indicates that the file is in JPEG format. The extension is always separated from the file name by a period.

JPEG Files

This is read "Jay-Peg" file. This is one of the file formats used for saving image data. It is widely used when recording still images, its strong point being its small file size.

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Changing Image Confirmation Time (LCD CONFIRM.)

Immediately after pressing the shutter button, the still image taken is displayed for a moment so you can check it.
At purchase, Confirmation Time is set to one second, but this can be changed.

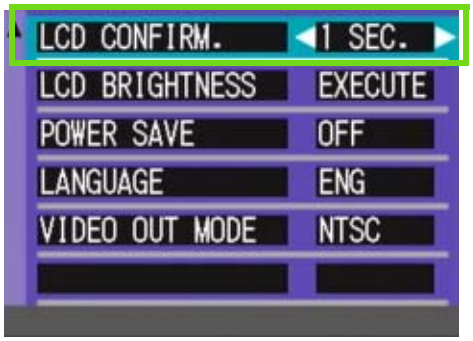
Possible Settings

OFF (Photo not displayed for confirmation)
1 Minute (Default)
2 Seconds
3 Seconds

To change Confirmation Time, follow the steps below.

1. **Turn the Mode Dial to SETUP (Setup Mode).**
   The Setup Screen appears.

2. **Press the ▼ button to select [LCD CONFIRM.].**



3. **Press the ◀▶ buttons to select the desired setting.**

   This setting will be used for shooting until you change it.

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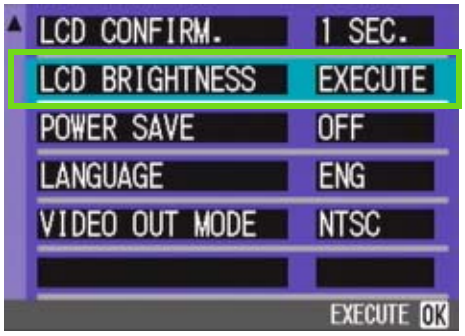
Adjusting the Brightness of the LCD Monitor (LCD BRIGHTNESS)

You can adjust the brightness of the LCD Monitor.

To adjust the brightness of the LCD Monitor, follow the steps below.

1. **Turn the Mode Dial to SETUP (Setup Mode).**
   The Setup Screen appears.

2. **Press the ▼ button to select [LCD BRIGHTNESS].**



3. **Press the OK button.**
   The LCD Brightness Adjustment bar appears.

4. **Press the ▲▼ buttons to adjust the brightness.**
   Moving it to the ☀ side makes it darker. Moving it to the ☀ side makes it brighter.
   The brightness of the screen behind the bar changes as you alter the setting.

5. **When you attain the desired brightness, press the OK button.**
   The SETUP screen returns.

   This setting will be used until you change it.

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Changing Power-Save Mode Settings (Power-Save)

You can reduce the power consumption of the LCD Monitor and extend the life of your batteries. The display on the LCD Monitor will turn off. Press the ⊆ (Quick Review) button or the MENU button to turn the LCD Monitor Display on, and then press them again to turn the display off. You cannot turn the LCD Monitor Display on/off by pressing the ⏲ (Self-timer) or ❀ (Macro) button.
At the time of purchase, Power-Save Mode is set to [OFF].

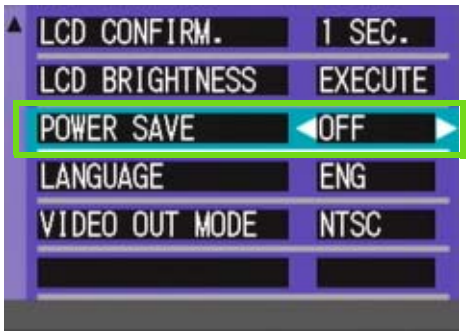
Possible Settings

OFF (Power-Save Mode Inactivated) (Set at purchase)
ON (Activate Power-Save Mode)

To change the Power-Save Mode, follow the steps below.

1 Turn the Mode Dial to SETUP (Setup Mode).
The Setup Screen appears.

2 Press the ▼ button to select [POWER SAVE].



4 Press ◀▶ to select the desired setting.

This setting will be used until you change it.

Pressing the ϟ (Flash) button allows you to turn the LCD Monitor Display on, and then change the flash setting (see P.51). Press the shutter button or OK button to turn the LCD Monitor Display off.

If you have activated Power-Save mode, power consumption will be reduced, but there are the following limitations.
- Processing time may be slower.
- It works only in Shooting Mode. It does not work in Playback Mode.

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Changing the Display Language (LANGUAGE)

You can change the language displayed on the LCD Monitor.

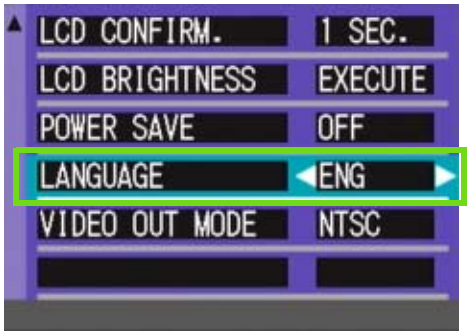
Possible Settings

JPN (Japanese)
ENG (English) (Default)
FRE (French)
GER (German)
ITA (Italian)
ESP (Spanish)
CHI (Chinese, simplified characters)

To change the display language, follow the steps below.

1. **Turn the Mode Dial to SETUP (Setup Mode).**
   The Setup Screen appears.

2. **Press the ▼ button to select [LANGUAGE].**



3. **Press the ◀▶ buttons to select the desired setting.**

   This setting will be used until you change it.

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Changing the Playback Method for Viewing on TV (VIDEO OUT MODE)

You can view your still images and movies on a television screen by connecting your camera to a television with the AV cable that came with your camera.
Your camera is set to NTSC video format (used in Japan and other countries) for use with television equipment, etc. If the equipment you want to connect to uses PAL format (used in Europe and elsewhere), then switch your camera to PAL format before connecting.

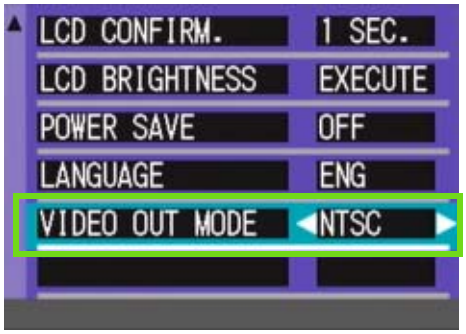
Possible Settings

NTSC (Default)
PAL

To change the playback format, follow the steps below.

1 **Turn the Mode Dial to SETUP (Setup Mode).**
The Setup Screen appears

2 **Press the ▼ button to select [VIDEO OUT MODE].**



3 **Press the ◀▶ buttons to select the desired setting.**

This setting will be used until you change it.

Connecting the AV cable to the camera turns off the LCD monitor display.

For how to view still images on your television screen, see P.100.

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Chapter 2 Playing Back Images (Pictures/Movies) on a Computer (For Windows)

Section 1 Installing Software

This section explains the process of installing the provided software onto your computer.

Please do not connect your camera to the computer before installing the software for downloading.
If you happened to connect your camera to computer (resulting in the [Add New Hardware Wizard] screen appearing), simply click [Cancel], and after disconnecting your camera, install the software on your computer.

- For the rest of this explanation, still images and movies will be referred to together as "file".
- When downloading images from your camera, it is recommended you safeguard the power supply by using the AC Adapter (sold separately). The explanations provided here assume that the AC Adapter is being used.

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Using the Software Provided

The CD-ROM that comes with your camera contains software for downloading images from the camera to a computer and displaying them on it. The following software is included.

Caplio Software

Ricoh Gate La for Windows	Used to download images
DU-10x	Used to display images on your computer
USB driver	Used for connecting your camera to a computer
WIA driver	Used to download images (for Windows XP)
ListEditor	Used to create a camera memo list
Caplio Setting	Used to create a communication list (communication settings)
Caplio Server	Used to set up your computer as an FTP server for Caplio only

Optional Software

Acrobat Reader	Used to browse the contents of the operation manual.
DirectX	Used to play back movies

ListEditor, Caplio Setting, and Caplio Server are for a Ricoh camera other than Caplio G4/G4wide. For details about these applications, see the documentation that came with the camera.

Software and OS Applicability Table

The software that can be used differs according to the OS in use, as indicated in the table below.

Application Name	Windows XP	Windows 98/98SE/Me/2000
Richo Gate La for Windows	o	o
DU-10x	o	o
USB driver	o	o
WIA driver	o	×
ListEditor	o	o
Caplio Setting	o	o
Caplio Server	o	o
Acrobat Reader	o	o

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System Requirements for Using the Provided Software

The following environments are necessary for using the provided software. Please check your computer, or the computer's user manual.

Operating Systems Supported	Windows 98/98 Second Edition
	Windows 2000
	Windows Me
	Windows XP
CPU	Pentium 2 or higher
Memory	Windows 98/98SE: 32MB or more (96MB or more recommended)
	Windows 2000: 128MB or more (256MB or more recommended)
	Windows Me: 64MB or more (96MB or more recommended)
	Windows XP: 128MB or more (256MB or more recommended)
Hard drive space required for installation	Windows 98/98SE: 10MB or more
	Windows 2000: 10MB or more
	Windows Me: 10MB or more
	Windows XP: 10MB or more
Display resolution	640 × 480 pixels or greater (800 × 600 or greater recommended)
Display colors	256 colors or greater (65000 or greater recommended)
CD-ROM drive	A CD-ROM drive compatible with the above-mentioned computer body
USB port	A USB port compatible with the above-mentioned computer body

- If your computer has an upgraded OS, the USB function may not work normally, so it cannot be supported.
- Problems may arise due to changes made to the OS, such as through patches or a service package release.
- Connection to a USB port retrofitted using an extended function (PCI bus, etc.) cannot be supported.
- If used in conjunction with a hub or other USB devices, the software may not work properly.
- When dealing with movies and other large files, a larger memory environment is recommended.

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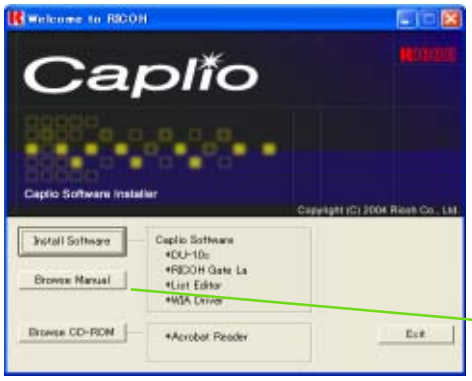
Preparing to Download Images to Your Computer

This section shows how to download images to your computer by using the Caplio CD-ROM included with the camera.



Insert the included CD-ROM into the CD-ROM drive of your computer and the screen shown on the right appears.

The screen shown here is from Windows XP.

You can browse the manual on the CD-ROM by clicking this button.

1 **Install the software.**

Windows 98/98SE/Me/2000/XP→P.135
Windows XP→P.137

2 **Install the following software products, if necessary:**
- **Acrobat Reader**
- **DirectX**

Acrobat Reader →P.139
DirectX →P.139

3 **Connect the camera to your computer.** →P.141

4 **Download images to the computer.** →P.143

- To uninstall the software, see P.136 (or P.138 for Windows XP).
- To load images from an SD memory card directly into the computer, see P.140.

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Installation

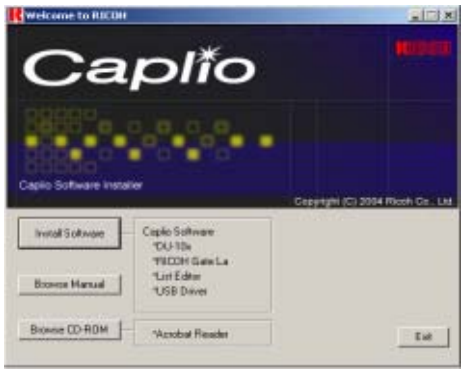
For Windows 98/98SE/Me/2000

In Windows 2000, only a user with administrative privileges can perform installation.

1 Make sure that your camera is not connected to the computer.
If you have already connected your camera to the computer and the [Found New Hardware Wizard] screen was displayed, click [Cancel], disconnect the cable between the camera and computer, and then continue installation.

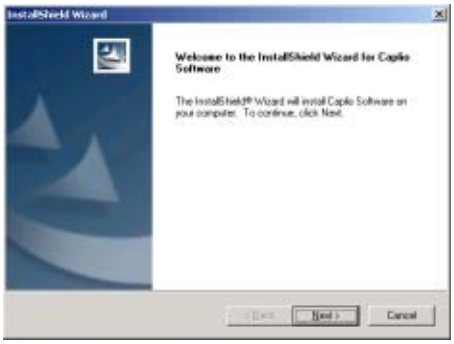
2 Start your computer.

3 Insert the CD-ROM in the CD-ROM drive.
The following screen appears automatically.

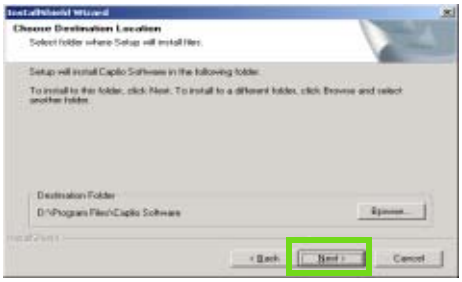


4 Click [Install Software].

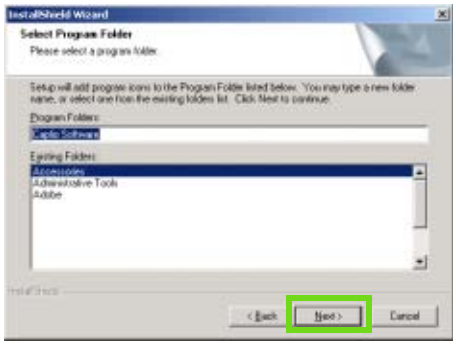
5 Select a language and then click [OK].



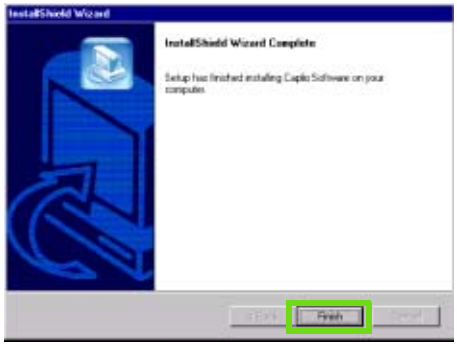
6 Click [Next].



7 Confirm where you want to install and then click [Next].



8 Confirm the program folder and then click [Next].
Installation begins and after a while the following screen appears.



9 Click [Finish].
Installation is complete.

- If the screen from step 3 is not displayed automatically, take the following steps.
  1. Double-click the [My Computer] icon, and then double-click the CD-ROM drive icon.
  2. Double-click the AutoRun file (Autorun.exe) displayed in the CD-ROM drive window.
- You may need to restart your computer after installation.

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Uninstalling the Software (For Windows 98/98SE/Me/2000)

When you want to remove the software, follow the steps below (this operation is called uninstallation).
In Windows 2000, only a user with administrative privileges can uninstall the software.

1 Click [Start] on the Windows task bar.
The [Start] menu appears.

2 Select [Settings] and then [Control Panel].
The control panel screen appears.

3 Double-click the [Add/Remove Programs] icon.

4 Select [Caplio Software] and then click [Change/Remove].

5 A message appears to confirm whether you want to remove the program: click [Yes].

6 The uninstallation process begins and a message appears when it is finished: click [OK].
A message may appear prompting you to restart the computer. In this case, select restart then click [Complete]. The computer will restart.

7 Once you click [OK], the [Add/Remove Programs] dialog box closes.

8 Click the [×] (Close) button to close the Control Panel.

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For Windows XP

In Windows XP, only a user with administrative privileges can install the software.

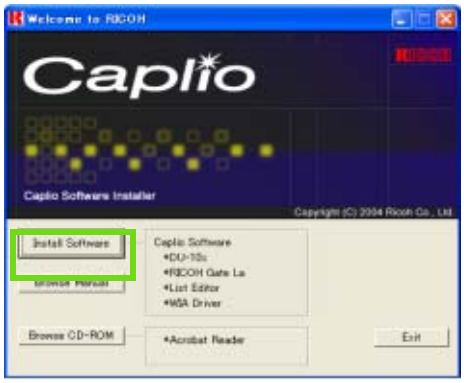
1 Make sure that your camera is not connected to the computer.

If you have already connected your camera to the computer and the [Found New Hardware Wizard] screen was displayed, click [Cancel], disconnect the cable between the camera and computer, and then continue installation.

2 Start your computer.

3 Insert the CD-ROM in the CD-ROM drive.

The following screen appears automatically on your computer screen.



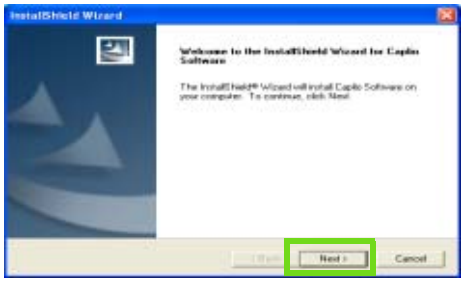
4 Click [Install Software].

5 Select a language and then click [OK].

After a few moments, the [Welcome to InstallShield Wizard] screen appears.

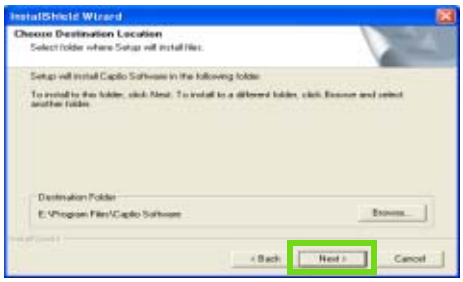
6 Click [Next] .

After a few moments, the [Choose Destination Location] screen appears.

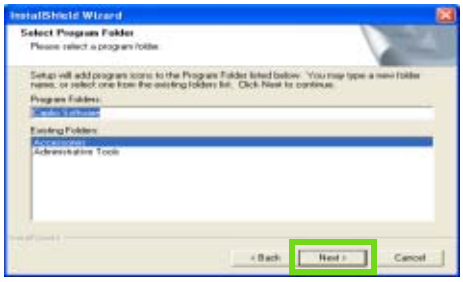


7 Confirm where you want to install the software and then click [Next].

After a few moments, the [Select Components] screen appears.



8 Confirm the software you want to install and then click [Next].



Thereafter, if you continue the operation by following the messages, the [Finish] screen of the [InstallShield Wizard] will appear.
If a message appears asking you whether you want to restart your computer, select [Yes, restart my computer now.] then click [Finish]. The computer will restart.

If the screen from step 3 is not displayed automatically, take the following steps.

1. Click the [Start] button on the task bar and then select [My Computer] from the start menu.
2. Double-click the CD-ROM drive icon displayed in the [My Computer] window.
3. Double-click the AutoRun file (Autorun.exe) displayed in the CD-ROM drive window.

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Uninstalling the Software (For Windows XP)

When you want to remove the software, follow the steps below (this operation is called uninstallation).
For Windows XP, only a user with administrative privileges can uninstall the software.

1. **Click [Start] on the Windows task bar.**
   The [Start] menu appears.

2. **Select [Control Panel] from the [Start] menu.**
   The control panel screen appears.

3. **Click the [Add/Remove Programs] icon.**

4. **Select [Caplio Software] and then click [Change/Remove].**

5. **A message appears to confirm whether you want to remove the program: click [OK].**

6. **The uninstallation process begins and a message appears when it is finished. Click [Finish].**
   If a message appears asking you whether you want to restart your computer, select [Yes, restart my computer now.] then click [Finish]. The computer will restart.

7. **Once you click [OK], the [Add/Remove Program] dialog box closes. Click the [×] (Close) button to close the Control Panel.**
   After the uninstallation is complete, please restart your computer.

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Installing Other Software

In addition to the Caplio Software, you can also install the following software from the CD-ROM provided.

- Acrobat Reader
- DirectX

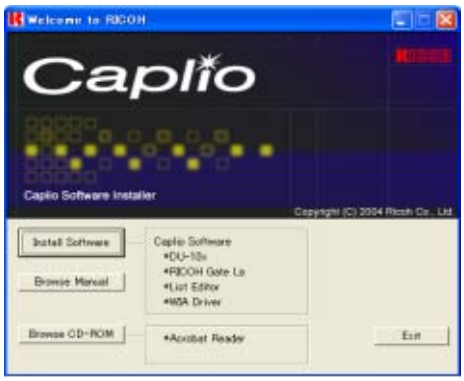
Do not install the software when the camera is connected to your computer with a USB cable.

Installing Acrobat Reader

Acrobat Reader is software to display the operation manual (PDF file). If the computer is running under Windows, Acrobat Reader can be installed. Acrobat Reader needs not be installed if already installed on your computer.

For Windows XP or Windows 2000, Administrator privileges are required to install the software.

1. **Start your computer and insert the Caplio CD-ROM in the CD-ROM drive.**
   The screen shown below appears.



2. **Click [Browse CD-ROM].**
   List of files included on the CD-ROM appears.
3. **Double-click the [Acrobat] folder.**
4. **Double-click the [English] folder.**
5. **Double-click [ar500enu] (ar500enu.exe).**
6. **Install Acrobat Reader by following the messages displayed.**

Installing DirectX

DirectX is software to play back movies. This camera requires DirectX 7.1 or later to play movie files in Windows. If you have an earlier version installed, please install the updated version available on the accompanying CD-ROM.
For Windows XP, the updated version is already installed.

For Windows 2000, Administrator privileges is required to install the software.

1. **Insert the Caplio CD-ROM in the CD-ROM drive and select the [DirectX] folder under the CD-ROM drive using Explorer.**
2. **For Windows 98/98SE/Me, double-click [DX81xxx.exe] in the [Win98Me] folder. For Windows 2000, double-click [DX81NTxxx.exe] in the [Win2000] folder. (xxx differs depending on the language version being used.)**

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Section 2 Downloading Images to a Computer

This section explains how to display still images and movies you have downloaded to your computer.

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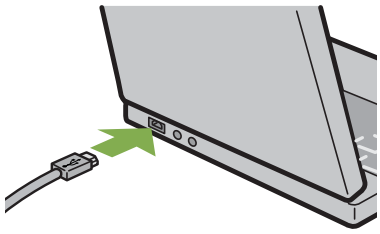
Connecting the Camera to a Computer

After installing the software on your computer, connect your camera to it.

While connecting the camera to a computer, do not press the ADJ. button.

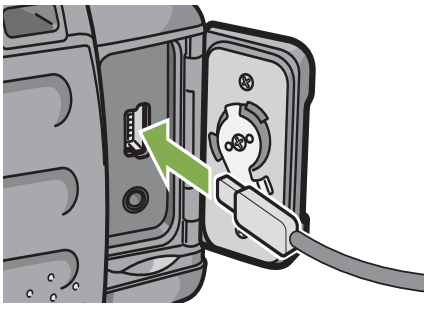
1. **Make sure the camera's power is off.**

2. **Connect the USB cable to the USB port of your computer.**



3. **Turn the terminal cover knob of the camera in the direction of the arrow to open the cover.**

4. **Connect the USB cable to the USB terminal of your camera.**



Your camera turns on.

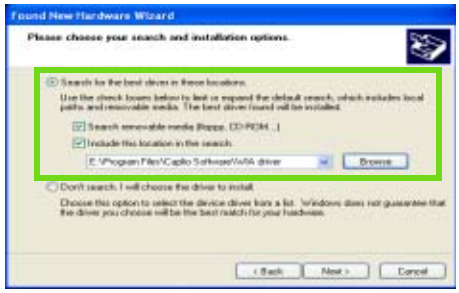
For Windows XP

In Windows XP, the first time you connect your camera to the computer using a USB cable, the [Found New Hardware Wizard] screen will appear.

1. **Select [Install from a list or specific location (Advanced)].**

2. **Select [Next].**

3. **Select [Search for the best driver in these locations.] -[Include this location in the search] and then press the [Browse] button.**



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4 Browse to the folder where the WIA driver was installed (by default this should be C:\Program Files\CaplioSoftware\WIA driver) and then select [Next].

The WIA Driver is installed.
The[Caplio 400G wide] screen appears.

5 Select [RICOH Gate La], check [Always use this program for this action] check box, and then click [OK].

- To load images from the camera with assistance from the Windows XP Scanner and Camera Wizard, select [Scanner and Camera Wizard].
- Leaving the [Always use this program for this action] check box unchecked will cause the [Caplio 400G wide] screen to be displayed each time you transfer images from the camera, thereby allowing you to choose whether to use RICOH Gate La or the Scanner and Camera Wizard for image transfers.

Caplio 400G wide
Device connected
Select the program to launch for this action:
Microsoft Scanner and Camera Wizard
Download pictures from a camera or scanner
RICOH Gate La
Downloads images and audio from your cam...
Always use this program for this action
OK
Cancel

- To disconnect your camera from your computer:
  1. Turn your camera off by pressing the power button.
  2. Unplug the USB cable.
- When you are downloading images from your camera, the AC Adapter (sold separately) is recommended.

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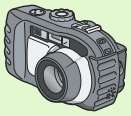
Downloading Pictures to Your Computer

After you have connected your camera to the computer, the RICOH Gate La software automatically downloads the images stored on your camera.

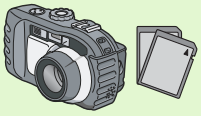
When an SD memory card is not inserted, the camera loads from the internal memory; when an SD memory card is inserted, it loads from the SD memory card.

When no SD memory card is loaded



▶▶▶▶▶▶ Loads from internal memory

When an SD memory card is loaded



▶▶▶ Loads from the SD memory card

For how to change files names when recording, see P.125.

For Windows 98/98SE/Me/2000/XP

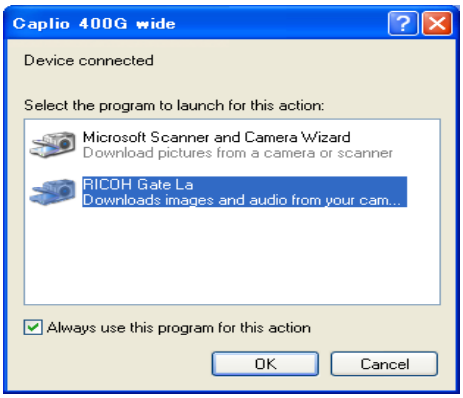
RICOH Gate La automatically creates a folder called [Caplio] inside your [My Documents] folder. Downloaded images are saved in folders with the date of each shot, inside the [Caplio] folder.

1 Connect your camera to the computer using the USB cable.

The camera turns on, RICOH Gate La starts, and the RICOH Gate La window appears.

Image transfer begins automatically.
Once download finishes, DU-10x launches, and you can view the images.

Images are stored with sequential numbers so that they have unique file names. File names given by the camera are not used. Even when the storage folder is changed, the file number will be continuous. The number cannot be initialized.
If the screen below appears, select "RICOH Gate La", check the box next to "Always use this program for this action" and then press [OK].


Caplio 400G wide
Device connected
Select the program to launch for this action:
Microsoft Scanner and Camera Wizard
Download pictures from a camera or scanner
RICOH Gate La
Downloads images and audio from your cam...
Always use this program for this action
OK
Cancel

- Before closing RICOH Gate La, if you turn the camera power off, or unplug the USB cable, the RICOH Gate La window is minimized and displayed as an icon on the Windows task bar. If you click the icon, the window will be displayed again.
- After exiting RICOH Gate La by pressing the [MENU] button and selecting [Close], if you want to restart RICOH Gate La, select [Programs] from the [Start] menu then select Capli0o Software then RICOH Gate La.
- You can change the folder for downloading your images (Save Destination).
- When transferring images to a computer, if a file already exists with the same name in the destination folder, your image is renamed before saving to avoid overwrite problem.
- When transferring images to a computer via RicohGate, the files are assigned names like RIMG****.jpg (xxxx indicates the number of the image), even if "SEQUENTIAL NO." is set to ON.

- For how to change the Save Destination Folder, see P.145.
- For how to start RICOH Gate La, see P.144.
- For RICOH Gate La screen, see P.144.

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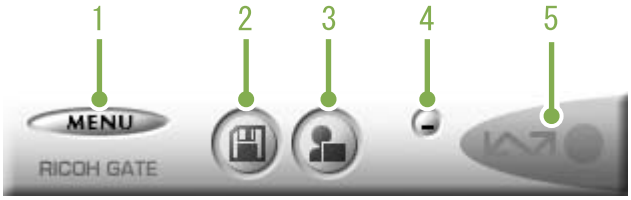
How to Use RICOH Gate La

When you are in the RICOH Gate La window, you can specify settings for each of the various functions, such as automatically saving when connected, the destination for downloading images (save destination), and so on.

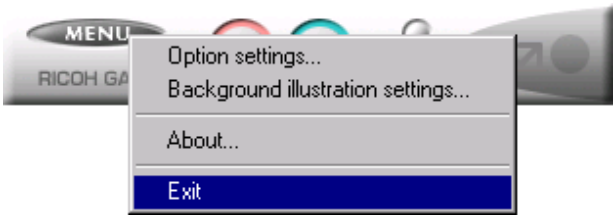
The RICOH Gate La Window

Once RICOH Gate La starts up, the following RICOH Gate La window appears on your computer screen.



1. [MENU Button]

Click this and the following menu appears.



Menu:

[Option settings]:
Specifies where to save images, or which application to launch when you press the Application button and after saving. (See P.145)

[Background illustration settings]:
Changes the background design in the RICOH Gate La window. (see P.146)

[About]:
Displays the version of RICOH Gate La.

[Exit]:
Closes RICOH Gate La.

2. [Save Button]

Click this and the images are downloaded from your camera.

Do not press the Save button while the message "Connecting... Press the ADJ. button to perform direct printing" is displayed on the LCD monitor of the camera.

3. [Application Button]

The application registered in Optional Settings is launched. DU-10x is registered initially.

4. [Minimize Button]

Minimizes the window and displays its icon on the Windows task bar. If you click on the icon, the window will be displayed again.

5. [Indicator]

The indicator lights if the camera is connected via USB cable. When lit, if you put the mouse pointer on the Indicator, it displays "Camera Connected." When your camera is not connected, the Indicator is grayed out, and if you put the mouse pointer on it, "Camera Connected" does not appear.

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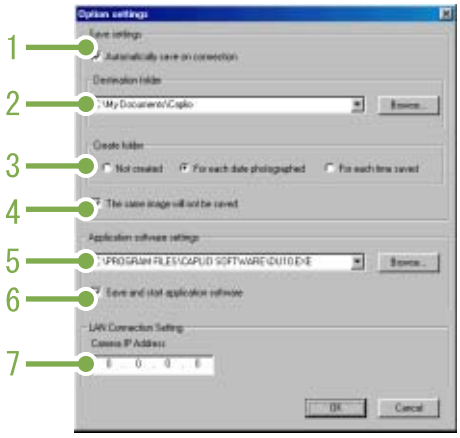
How to Use the Optional Settings

If you select [Option settings] from the menu displayed on a button in the RICOH Gate La window, the [Option settings] dialog box appears.



Item	Description	Initial Setting
1. [Automatically save on connection]	If you check this box, once your camera is connected to the computer, images are automatically downloaded and saved. If you uncheck the box, your images will not download automatically when you connect your camera. Click the [SAVE] button when you want to download.	Execute auto save.
2. [Destination folder]	Specifies which folder to save your images in. The [Caplio] folder inside [My Documents] is specified initially; if you want to change this, click the [Browse] button to display the dialog box and then specify the folder.	———
3. [Create folder]	Specifies how to create a folder. [Not created] Your downloaded images will all be saved in the folder specified in item 2. [For each date photographed] Creates a new folder assigning the date the images were shot as the folder name, and saves images shot on the same day in the same folder. For example, if shot on May 1, 2004: [20040501] folder [For each time saved] Creates a new folder for each time images are saved and saves the images shot at the same time in the same folder. If you save several times in one day, they are saved in separate folders each time. For example, if you saved twice on May 1, 2004: [20040501_001] folder, [20040501_002] folder	Each day shot.
4. [The same image will not be saved.]	You can specify this only when you have selected either [Do not Create] or [Each Day Shot] in [Create a Folder] or if in [Create a Folder] you did not check [Do not save same image when saving]. If you try to save a file to a folder that has an image file of the same name, it will not be saved.	Do not save same image.
5. [Application software settings]	Specify the name of the program if you want an application to launch after you save. The [Caplio] folder DU-10x.exe (DU-10x File Name) is specified initially; if you want to change this, click the [Browse] button to display the dialog box and then specify which application to use.	———
6. [Save and start application software]	If this is checked, an application will be launched after saving. If this is unchecked, no application will be launched.	After saving. Launch application.
7. [Camera IP Address] *This function is only available for Caplio Pro G3.	This is used for a Ricoh camera other than G4/G4wide. For details, see the documentation that came with the camera.	0.0.0.0

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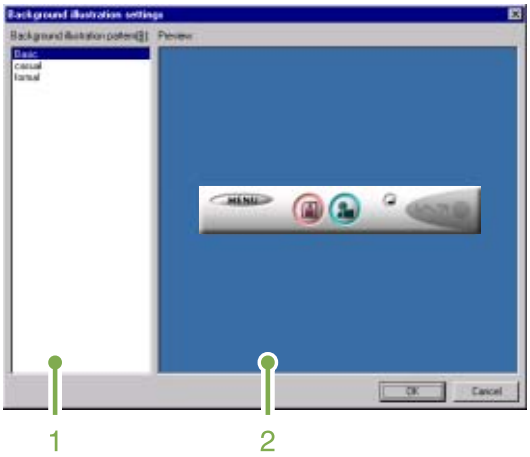
How to Use the Background Illustration Settings

You can select a background for the RICOH Gate La window from three types of patterns. If you select [Background illustration setting] from the menu displayed by the [MENU] button in the RICOH Gate La window, the [Background illustration settings] dialog box appears.



1. [Background illustration pattern]

Select the pattern you wish to use from the three available.

2. [Preview]

The pattern selected in [Background illustration pattern] appears, and you can configure it.

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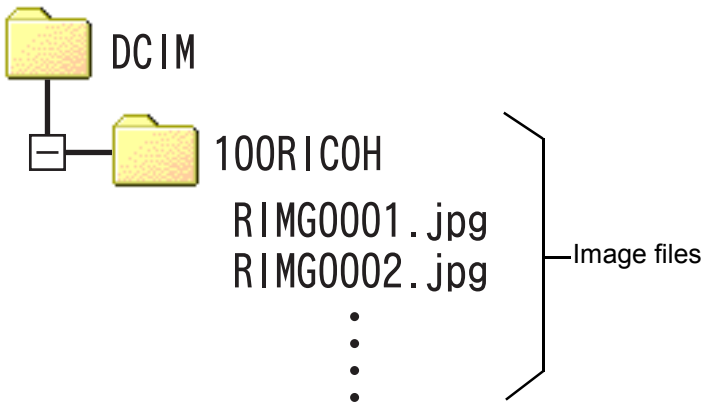
Downloading Images from an SD Memory Card

It is possible to download images from a memory card to computer via a PC Card Slot or Card Reader. To load an SD Memory Card into a PC Card Slot or Card Reader, the FM-SD53 PC Card Adapter (sold separately) is required.

Images in an SD Memory Card

Images are stored on an SD Memory Card in a hierarchy, as shown here.



If the card reader is SD Memory Card compatible (directly loadable), no PC Card Adapter is required.

Card Reader
This is a device that connects to a computer and can read the contents of cards. In addition to the PC Card type, there are Card Readers compatible with various types of cards, into which you can directly load a memory card.

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Section 3 Displaying Thumbnail Images (How to Use DU-10x)

DU-10x enables you to view downloaded images at a glance—as well as edit, rotate and resave images.
This section explains how to use DU-10x.

DU-10x runs in a Windows environment.

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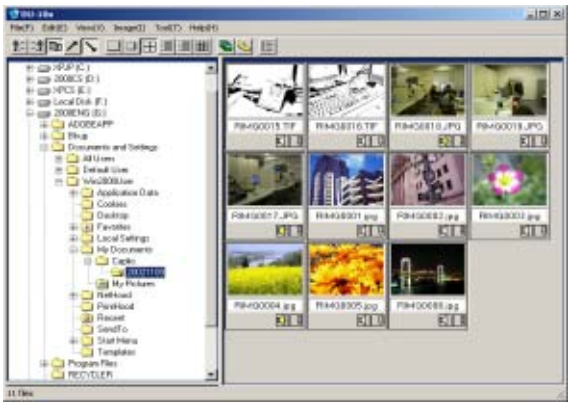
Starting and Exiting DU-10x

There are two methods of starting DU-10x:

- **Auto Start from RICOH Gate La**
  In the RICOH Gate La option settings, if the Application Software is set to DU-10x, and if [After saving, launch Application software] is checked, DU-10x will start automatically after image files have downloaded from your camera with RICOH Gate La.
- **Start from Windows [Start] menu**
  If you select [Program] then [Caplio Software] then [DU-10x] from the [Start] menu, you can start DU-10x.

DU-10x Window

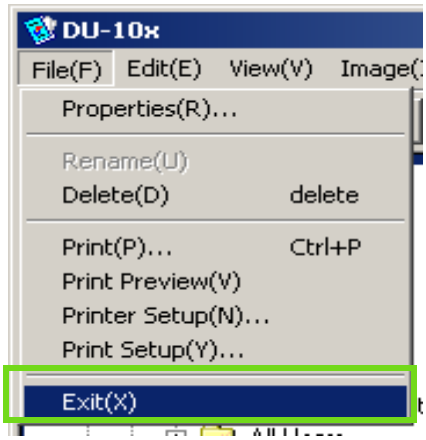
Once you start DU-10x, a window like the one below appears.



The images you saved are displayed all in one window. This method of displaying reduced size images is called thumbnail display.

Exiting DU-10x

To exit DU-10x and close its window, select [File] from the menu bar, then select [Exit] from the menu displayed, or click the [×] (Close) button in the upper-right corner of the screen.



For how to set DU-10x so that it does not launch automatically, see P.138.

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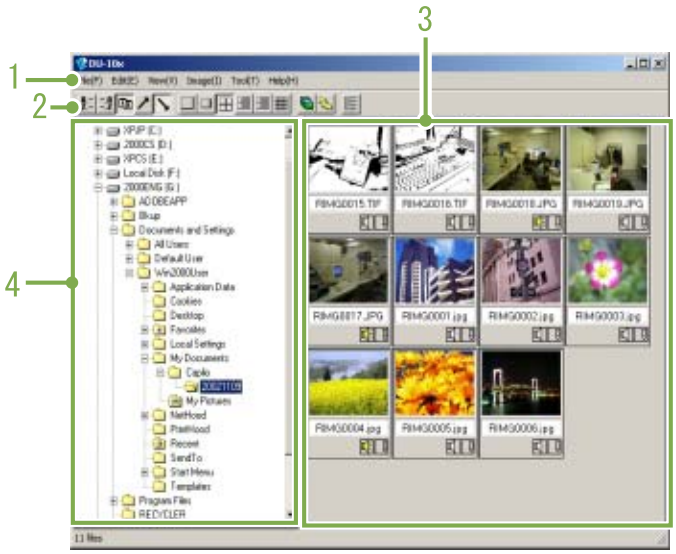
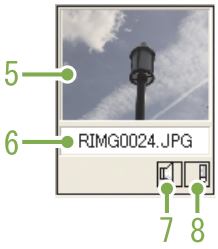
Thumbnail Display Description

Once you start DU-10x, images appear as thumbnails.





1. Menu Bar

You can change the display size and ordering of images.

2. Tool Bar

Of the functions available in the menu, the icons of those most frequently used are displayed, so you can use those functions with just one simple click.

a. Arrange

b. Display size

c. Auto slideshow

d. Display all files below folder

Selecting this option displays the images in all sub-folders as thumbnails.

e. Start List Editor

3. The Thumbnail Display Area

The reduced images are displayed at one glance.

4. Folder Display Area

The folders inside [My Computer] are displayed in a hierarchy. The images inside folders selected here appear in the Thumbnail Display Area.

5. Thumbnail Image

6. File Name

7. Sound Setting Y/N Display

A yellow speaker icon is displayed for an image with sound.

Double-clicking the speaker icon allows you to play back the sound.

8. Memo Setting Y/N Display

A red pencil mark is displayed for an image with a camera memo. Double-clicking the pencil mark displays the [Edit Memo] dialog box, allowing you to edit the camera memo.

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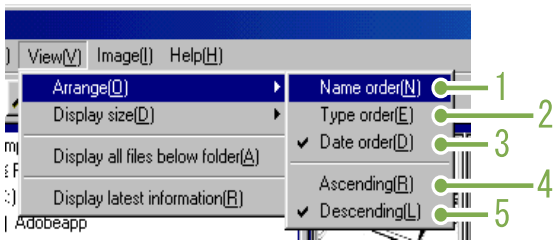
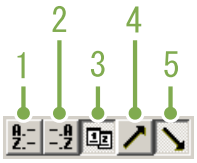
Switching the Ordering of Images

Displayed thumbnail images are ordered according to date (descending order).
You can change the ordering method to by file type or by name. You can also choose whether each of the above is ordered according to ascending or descending order.

To change the ordering of images, use either the tool bar or [Arrange] from the [View] menu.



Menu



Tool Bar

1. **Name order**
   Switches to By File Name.

2. **Type order**
   Switches to By File Type (in alphabetical order of the extension).

3. **Date order**
   Switches to By Date Shot (or By Update Date if edited).

4. **Ascending / 5. Descending**
   Ascending order is going from small to large, the opposite is descending order. For the alphabet, ABC is ascending order, and ZYX is descending.
   Select which order to use, 1, 2 or 3 and choose either ascending or descending order.

If you order by file type, the files are ordered alphabetically according to the file extension.

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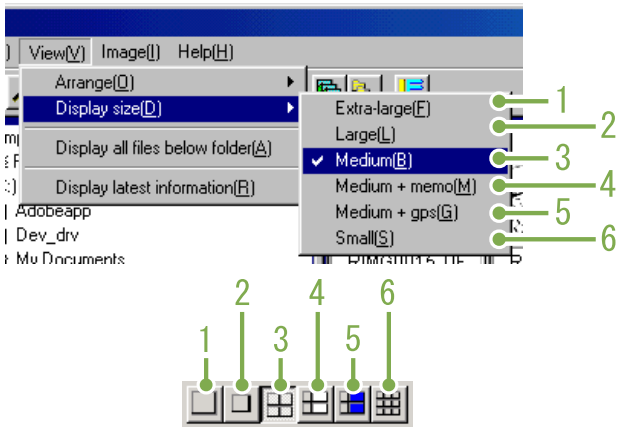
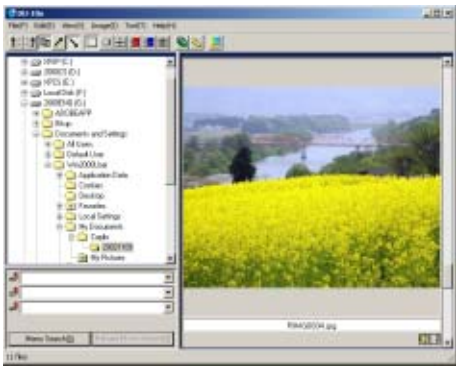
Changing the Display Size

To change the display size, use either the tool bar or [Display size] from the [View] menu.

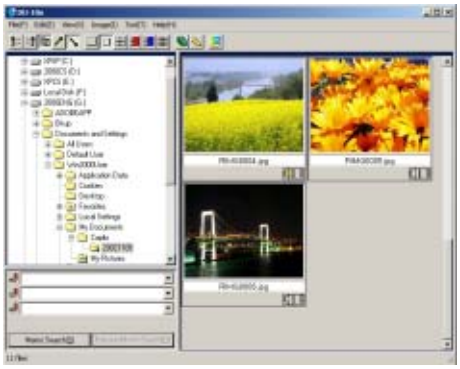


You can change the display size to one of five sizes available.

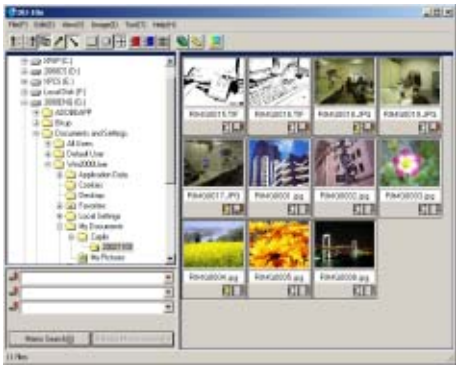
1. Extra-large



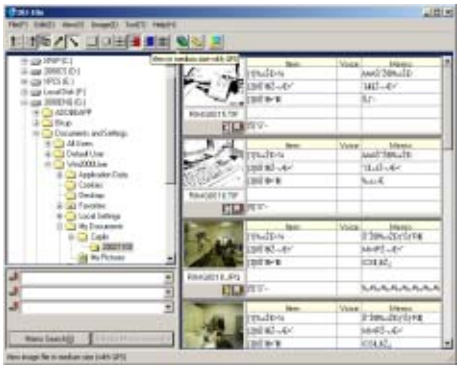
2. Large



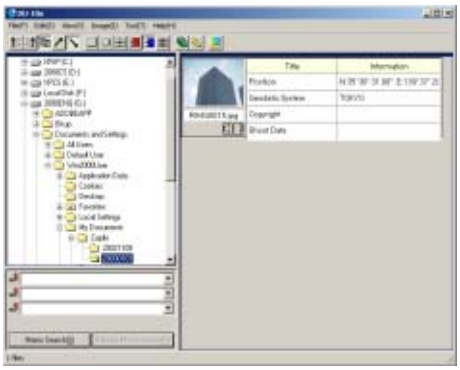
3. Medium



4. Medium+memo



5. Medium+GPS



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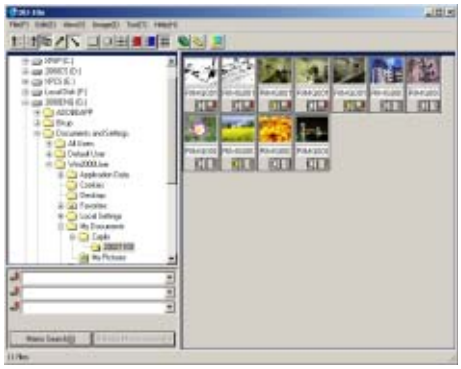
6. Small



Medium+GPS is used for a Ricoh camera other than this model. Normally, it is disabled.

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Viewing Images in a Slide Show

You can view images sequentially and automatically in either a slide show (selected images only) or auto slide show (all images).

To View a Slide Show

You can select one or more images and display them as a slide show.
To start slide show, follow the steps below.

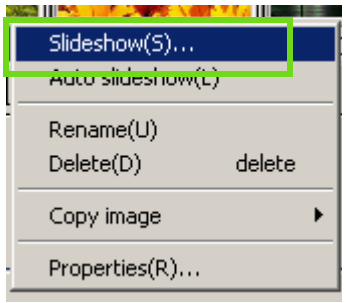
1 Select the images you wish to see in slide show.

If you want to select multiple consecutive images, after clicking the first image, press and hold the [Shift] key and click the last image.
To select multiple images that are not consecutive, press and hold the [Ctrl] while clicking each.

2 Using one of the steps below, select [slide show].

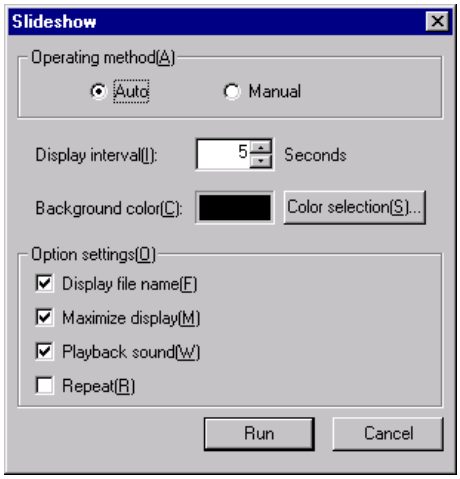
- Select [Image] then [slide show] from the menu bar.
- Place the pointer of the mouse on one of the images you selected, right click and choose [slide show] from the menu.

Menu



Shortcut menu displayed with right click

3 The [slide show] dialog box is displayed, so make the necessary settings.



4 Click the [Run] button.

The slide show begins.

Running a slide show

Type of slide show	Key	Action
[AUTO] is selected in step 3	[ESC] Key	Stops the slide show.
[MANUAL] is selected in step 3	[ESC] Key	Stops the slide show.
	Left-click Mouse [Space] Key [Enter] Key [→] Key	The next image is displayed.
	[Backspace] Key [←] Key	The previous image is displayed.

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Using Auto Slide Show

In Auto slide show, all the images displayed as thumbnails appear in order.
To start Auto slide show, follow the steps below.

1 Using one of the steps below, select [Auto slide show].

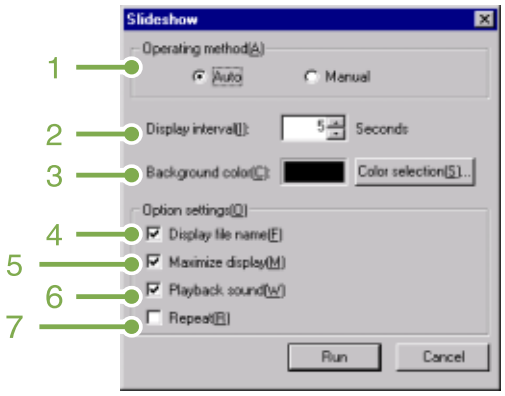
- Select [Image] then [slide show] from the menu bar.
- Click the button on the tool bar.
- Place the pointer of the mouse on one of the images you selected, right click and choose [Auto-slide show] from the menu.

The slide show begins.
The images advance automatically according to the display interval (number of seconds) you specified in the [slide show] dialog box.
Stop the slide show with the [Esc] Key.

- To automatically switch between images while viewing an auto slide show, select [Auto] in [Operating method] in the [slide show] dialog box.
- When [Manual] is selected in [Operating method], switch between images by pressing the [Enter] key or clicking on images in auto slide show.

How to Use the Slide Show Dialog Box

You can make slide show display settings in the [slide show] dialog box.



1. [Operating method]
Select either Auto slide show (the slides are played automatically, in order) or Manual (switch frames by clicking the mouse button or pressing the [Enter] key).

2. [Display interval]
Specify how long in seconds to display each image, when using Auto slide show.

3. [Background color]
Choose a background color for your images. Click the [Choose Color] button and choose a color from the dialog box that appears.

4. [Display file name]
If you check this box, the file name will appear in the bottom of the image.

5. [Maximum display]
If you check this box, your images will be displayed at full-screen size.

6. [Playback sound]
If you check this box, and the images have associated sounds, the sounds will also be played back.

7. [Repeat]
If you check this box, the sets of images will be shown repeatedly, until you press the [Esc] key to stop. If you uncheck this box, the images in the folder will be displayed through the cycle once, then the slide show will finish.

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Renaming an Image in Thumbnail View

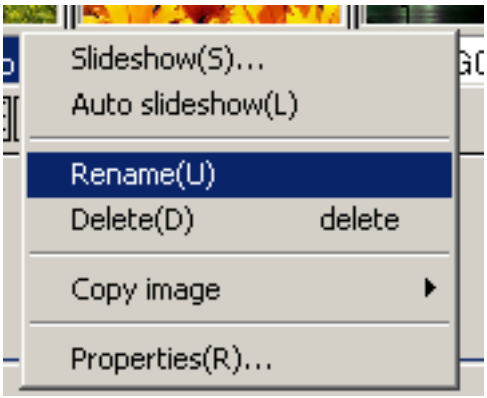
You can rename an image shown on the Thumbnail Display screen.

How to Rename an Image

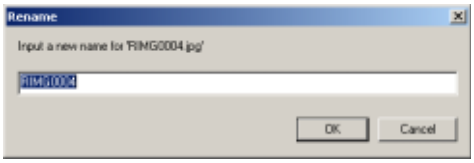
To rename an image shown on the Thumbnail Display screen, follow the steps below.

1. **Select an image you want to rename.**

2. **On the image you selected, right click and choose [Rename] from the menu.**



3. **When the [Rename] dialog box appears, enter the new name for the image.**



4. **Click [OK].**

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Copying a Reduced Image File

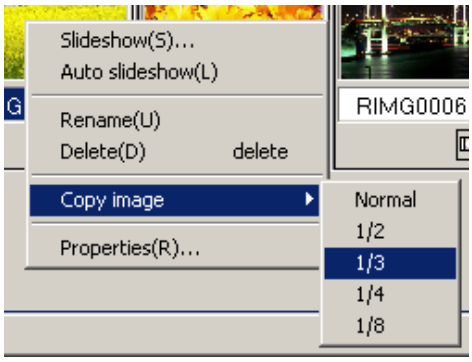
You can reduce an image shown on the Thumbnail Display screen and copy it onto the clipboard. Available scale options are 100%, 1/2, 1/3, 1/4, and 1/8.
For example, when you paste a shot image onto a Windows application document and find the image too large for your document size, you can reduce the image using this function in advance and paste it into the document via clipboard.

How to Copy an Reduced Image File

To reduce an image file size and copy it onto the clipboard, follow the steps below.

1. **Select an image you want to reduce.**

2. **On the image you selected, right click and choose [Copy Image] from the menu.**



3. **When the scale options appear, select a scale from the menu.**

4. **Paste the image from the clipboard to another Windows application.**
   For example, when using Paint from Windows Accessories, start Paint, and then select Paste from the Edit menu.

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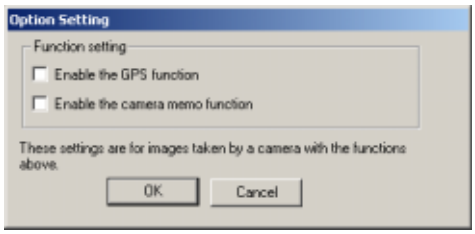
Enabling Functions Available with Other Models of Caplio

You can enable functions that can be used on other models of Caplio camera, such as GPS and Camera Memo functions.
This setting is required to handle images including a GPS information or a camera memo attached by other models of Caplio camera, using DU-10x.

How to Enable GPS Linkage or Camera Memo Function

To enable the GPS Linkage or Camera Memo function, follow the steps below.

1. **Select [Options] from the [Tool] menu.**
   The [Options] dialog box appears.


Option Setting
Function setting
Enable the GPS function
Enable the camera memo function
These settings are for images taken by a camera with the functions above.
OK
Cancel

2. **Select the check box next to the option you want to enable.**

3. **Click [OK].**

Cameras and Available Options

The table below shows a list of Caplio models and the corresponding functions available.

Your Caplio Model	GPS Linkage function	Camera Memo function
Caplio RR30	×	×
Caplio 300G	×	×
Caplio G3/G3 Model M	×	×
Caplio G3 Model S	×	O
Caplio Pro G3	O	O
Caplio G4	×	×
Caplio G4wide	×	×
Caplio 400G wide	×	O

x indicates that the camera support the function.
o indicates that the camera does not support the function.

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Functions You Can Use

The table below shows a list of functions you can use when the [Enable the GPS Function] or [Enable the Camera Memo Function] check box is selected.

	When [Enable the GPS Function] is checked	When [Enable the Camera Memo Function] is checked
Medium +GPS*1	O	×
Medium +memo*2	×	O
Search Memo Area*3	×	O
ListEditor*4	×	O
Edit the Camera Memo*5	×	O

*1: button on the tool bar, and [Medium +GPS] in the [View] menu.

*2: button on the tool bar, and [Medium +memo] in the [View] menu.

*3: The Search Area.

*4: button on the tool bar, and [Start ListEditor] in the [Edit] menu.

*5: button in the upper right of the thumbnail shown in the Thumbnail Display area.

For the functions that can be used with DU-10x, see the documents that came with your camera.

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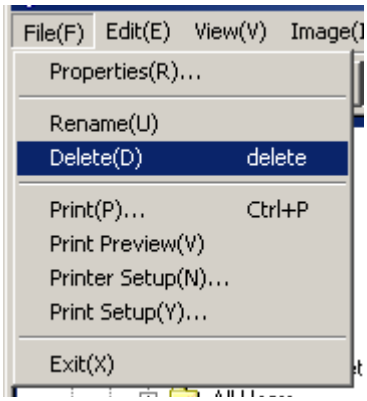
Deleting Images

You can delete images.
There are three methods for deleting images.

Using the File Menu

1. **Click an image you want to delete in the Thumbnail Display Area.**

2. **Select [Delete] from the [File] menu.**

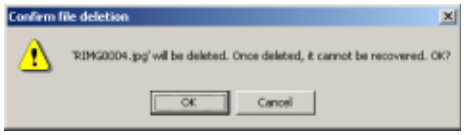


Using the Keyboard

1. **Click an image you want to delete in the Thumbnail Display Area.**

2. **Press the [DELETE] Key on your keyboard.**
   The confirmation message appears.

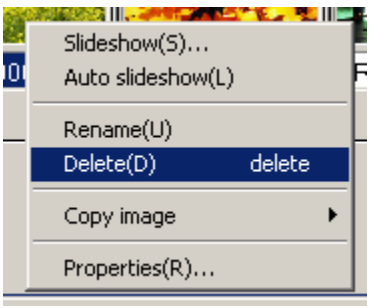
3. **Click [OK].**



Using the Shortcut Menu

1. **Right-click on the image you want to delete in the Thumbnail Display Area.**
   The menu appears.

2. **Select [Delete] from the menu.**



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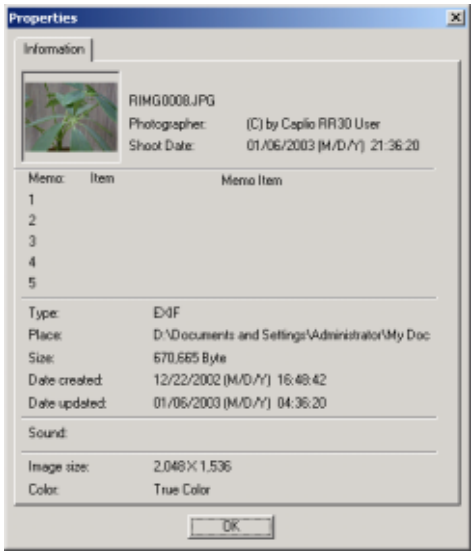
Viewing Image Information

You can display image information, such as the date and time a photo was shot, the size of the image, and so on.



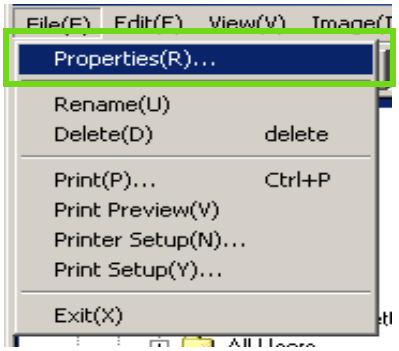
Information Dialog Box

To display image information, follow one of the steps below.

Using the File Menu

1. **Click the image in the Thumbnail Display Area for which you want to see information.**

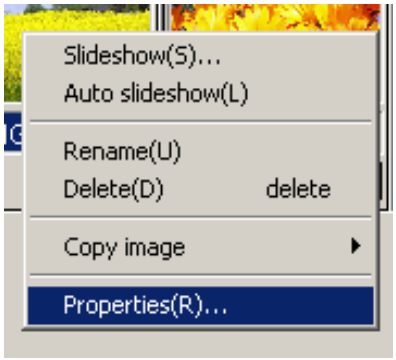
2. **Select [Properties] from the [File] menu.**



Using the Shortcut Menu

1. **Right-click on the image in the Thumbnail Display Area.**
   The menu appears.

2. **Select [Properties] from the menu.**



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Displaying the Viewer Screen

If you use the Viewer screen, images are displayed at full size, not as thumbnails. To open the Viewer screen, follow one of the steps below.

- **Double click the image you want to display from the thumbnail selection.**
- **Click the image you want to display from the thumbnail display area, then select [Display/Playback] from the [Image] menu.**

Using the Viewer Screen

Viewer Screen

1. Menu Bar

2. Tool Bar

[Save]
Overwrites an image and saves.
Tiff files can not be overwritten.

[Rotate 90° counter-clockwise]

[Rotate 90° clockwise]
You can rotate your images 90 degrees to the left or right.
You can correct images to their proper vertical/horizontal orientation.

[Enlarged display]

[Actual size view]

[Reduce display]

[Overall view]
You can enlarge or reduce the displayed size.
By repeating [Enlarge Display], you can enlarge the view up to 16 times its original size.
By repeating [Reduce Display], you can reduce the view down to 1/16th its original size.

Saving under a New File Name:

When you want to create a duplicate of an image, you can save it under a different file name.
The only file format you can save in is TIFF.

To save under a new file name, follow the steps below.

1. **Select [Save as...] from the [File] menu.**
   The [Save As] dialog box appears.

2. **Specify where to save the new file [Save in].**
3. **Enter the name of the new file in [File Name].**
4. **Click [Save].**

TIFF File

This is read "tiff" file. This is a format used when saving image data as a file. With the Caplio G4/G4wide, images (still images) are saved as files in the small JPEG (jay-peg) file format. TIFF file sizes are larger than JPEG files, but if you want to make frequent changes and resave, TIFF files prevent deterioration.

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Printing an Image

You can print a thumbnail display image.
There are ten layouts available.

To Print an Image

To print an image, follow the steps below.

1. **Select [Print Setup] from the [File] menu.**
   The [Print Setup] dialog box appears.

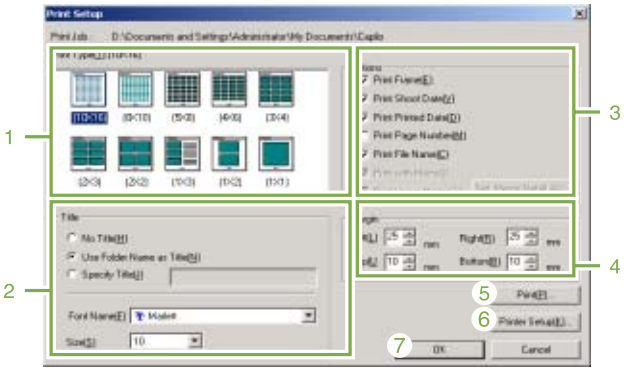
2. **Select a layout in [Print Type].**

3. **Make other settings as required.**
   For details on print setup, see the next section "How to Use the [Print Setup] Dialog Box".

4. **Click the [OK] button.**
   Print setup is complete.

- To go on printing at the step 4 , click the [Print] button. The [Print] dialog box appears, and you can start printing.
- To print an image in a large size, select 1x1 in [Print Type] on the [Print Setup] dialog box.

Using the [Print Setup] Dialog Box



1. **[Print Type]**
   Select a layout for printing thumbnails.

2. **[Title]**
   Prints a title at the top of the page. You can use a folder name or specify an arbitrary character string for the title.

3. **[Options]**
   Check the options to print an image with a frame, a shooting date, a printing date, the number of pages, and a file name. For information about [Print Image Memo] and [Memo Detail Setup], see P.163.

4. **[Margin]**
   Specify the page margin widths.

5. **[Print]**
   Bring up the [Print] dialog box to start printing.

6. **[Printer Setup]**
   Make printer settings.

7. **[OK]**
   Used for making print settings without actually printing.

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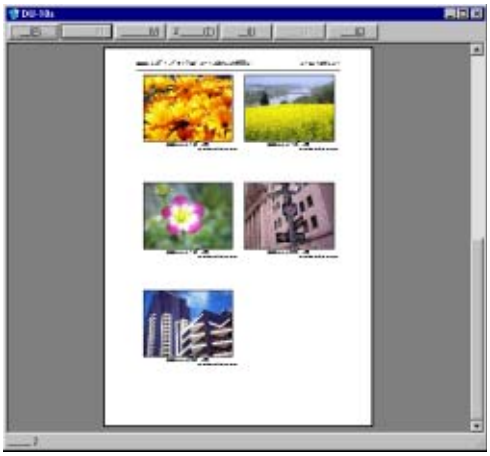
Checking the Printing Layout

You can check the print preview before printing.

1 Select [Print Preview] from the [File] menu.
The print preview screen appears.



Functions of the buttons shown at the top of the screen are as follows:

[Print]
Displays the [Print] dialog box to start printing.

[Next Page]
Displays the next page.

[Previous Page]
Displays the previous page.

[2 Pages]
Displays two pages on the screen at a time.

[Enlarge]
Zooms in on the page.

[Reduce]
Zooms out on the page.

[Close]
Closes the print preview screen.

Making printer settings

Selecting [Printer Setup] from the [File] menu allows you to make printer-related settings such as selection of a printer, paper size, and paper feed method.

Printing Images

To print images, follow the steps below.

1 Select the images you want to print by clicking on them.
To select two or more contiguous images, click the first image and then click the last image while pressing the [Shift] key. To select two or more distant images, click them one after another while pressing the [Ctrl] key. To print all thumbnail images displayed, go to step 2 directly.

2 Select [Print] from the [File] menu.
The [Print] dialog box appears.

3 Check the printer name, and click the [Properties] button to make printer settings if required.

4 Perform either of the following operations:
- To print the selected images, select [Selection] in [Print range], specify the number of copies, and click the [OK] button.
- To print all images, specify the number of copies and click the [OK] button.

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Chapter 3 Playing Back Images (Pictures/Movies) on a Computer (For Macintosh)

Section 1 Installing Software

This section explains how to install the required software on your computer.

- For the rest of this explanation, still images and movies will be referred to together as "file".
- When downloading images from your camera, it is recommended you safeguard the power supply by using the AC Adapter (sold separately). The steps here are explained on the premise that the AC Adapter is used.

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Using the Software Provided

The Caplio CD-ROM that comes with your camera contains software for downloading images from the camera to a computer and displaying them on it. The following software is included.

RICOH Gate La for Macintosh	Downloading images (for Macintosh)
USB driver	Connecting your camera to computer
Mounter	Downloading images

Software and OS Applicability Table

The software that can be used differs according to the OS in use, as indicated in the table below.

	Mac OS 8.6 to 9.2.2	Mac OS X 10.1.2 to 10.3
RICOH Gate La for Macintosh	O	×
USB driver	O	O
Mounter	O	O

- If you are using Mac OS ×10.1.2 to 10.3, you can display images using "iPhoto".
- If you are using Mac OS × 10.1.2 to 10.1.5, drag the Caplio volume icon and drop it into the iPhoto window.
- If you are using Mac OS × 10.2 to 10.3, photos can be transferred directly by using the iPhoto's Import button. The Caplio cannot be mounted directly by using the Read button.
- You cannot display movie files in iPhoto. Please use QuickTime instead.

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System Requirements

The following environments are necessary for using the provided software.
Please check your computer, or the computer's user manual.

Operating System	Mac OS 8.6 to 9.2.2/Mac OS X 10.1.2 to 10.3	
Macintosh	A USB port standard-equipped Apple Macintosh Series	
Internal Memory	Mac OS 8.6 to 9.2.2	96 MB or more (128 MB or more recommended)
	Mac OS X 10.1.2 to 10.3	128 MB or more (256 MB or more recommended)
Application allocated Memory (For Mac OS 8.6 to 9.2.2)	Without using the compression utility, 16MB or more (24 MB or more is recommended) as Application Memory	
Hard Disc Drive Capacity	Mac OS 8.6 to 9.2.2	10 MB or more (at installation)
	Mac OS X 10.1.2 to 10.3	100 MB or more (at installation)
	100 MB or more (at operation)	
Display Resolution	640 × 480 pixels or greater (800 × 600 or greater recommended)	
Display Colors	256 colors or greater (32,000 or greater recommended)	
CD-ROM Drive	A CD-ROM drive compatible with the above-mentioned Macintosh machine	
USB Port	A USB Port compatible with the above-mentioned Macintosh machine	

- Problems may arise due to changes made to the OS.
- Connection to a USB port retrofitted using an extended function (for example, PCI bus) cannot be supported.
- If used in conjunction with a hub or other USB devices, the software may not work properly.

- When dealing with movies and other large files, a larger memory environment is recommended.
- For Mac OS 8.6 to 9.2.2, use a larger memory environment, as well as allocating extra application memory.
- While the software can be operated at 256 colors or more for the Display Color, it is strongly recommended that 32,000 or more be used.

For how to download images to your computer when using an SD Memory Card, see P.147.

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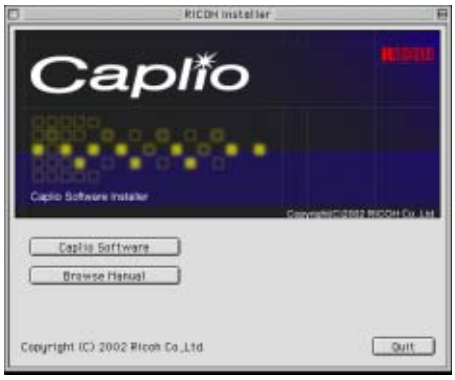
Preparing to Download Images to Your Computer

This section shows the flow of downloading images to your computer by using the Caplio CD-ROM included with the camera.

Mac OS 8.6 to 9.2.2



Mac OS X 10.1.2 to 10.3

Insert the included CD-ROM into the CD-ROM drive of your computer and the window or icon shown on the left appears.

1 **Install the software.**
Mac OS 8.6 to 9.2.2 → **P.169**
Mac OS X 10.1.2 to 10.3 → **P.170**

2 **Connect the camera to your computer.** → **P.173**

3 **Download images to the computer.** → **P.174**

- To uninstall the software, see P.171.
- To load images directly from an SD memory card into your computer, see P.147.

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Installation

For Mac OS 8.6 to 9.2.2

1 Turn on your Macintosh.

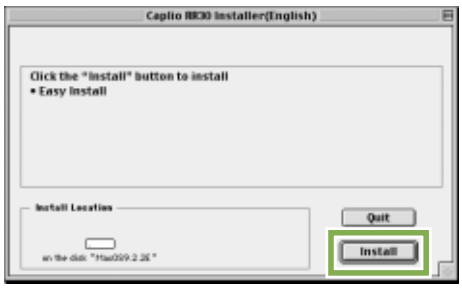
2 Insert the attached CD-ROM in the CD-ROM drive.
The CD-ROM icon is displayed on the desktop.

3 Double-click the CD-ROM icon, and open the [MacOS9] folder.
The [Caplio Installer] icon appears.

4 Double-click the Installer [Caplio Installer] icon.
The Installer starts up and the Start screen appears.

5 Click [Caplio Software].

6 Click the [OK] button.
The Installation screen appears.

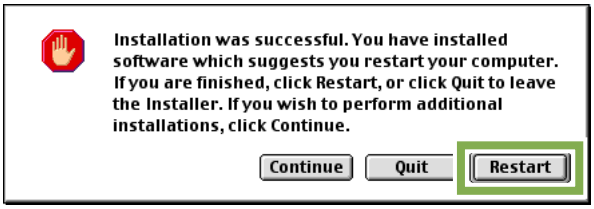


7 Click [Install].

8 Click [Continue].
The software is installed and then the Installation Complete message appears.

This installation recommends you restart your computer after installing this software. Click Continue to automatically quit all other running applications. Click Cancel to leave your disks untouched.
Cancel
Continue

9 Click the [Restart] button.
Your Macintosh restarts.


Installation was successful. You have installed software which suggests you restart your computer. If you are finished, click Restart, or click Quit to leave the Installer. If you wish to perform additional installations, click Continue.
Continue
Quit
Restart

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For Mac OS X 10.1.2 to 10.3

1 Turn on your Macintosh.

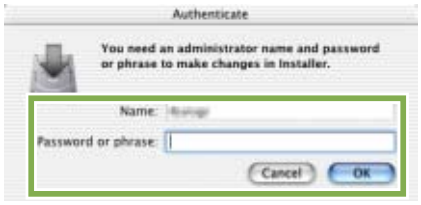
2 Insert the CD-ROM provided into the CD-ROM drive.

3 Double-click the CD-ROM icon, and then open the Mac OS X folder.
The [Caplio Mounter.pkg] icon appears.

4 Double-click the Mounter icon [Caplio Mounter.pkg].
The Installer is launched and a screen appears prompting you for the administrator's password.

5 Click the key icon.
A verification window appears.

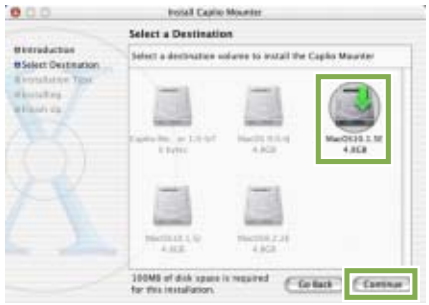
6 Enter the administrator's name and password, and then click [OK].



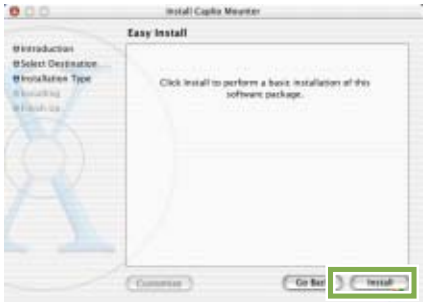
7 Click [Continue].
The [Select a Destination] screen appears.

8 Click [Continue].
The installation screen appears.

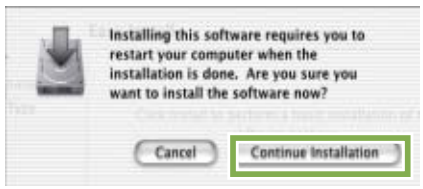
9 Click the destination volume you want, then click [Continue].



10 Click [Install].
After the installation has finishes, a message appears to confirm whether it is necessary to restart your Macintosh or not.



11 Click [Continue Installation].
The software is installed, and after a while an Installation Complete message appears.


Installing this software requires you to restart your computer when the installation is done. Are you sure you want to install the software now?
Cancel
Continue Installation

12 Click [Restart].
Your Macintosh restarts.

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Uninstalling the Software (For Mac OS 8.6 to 9.2.2)

To remove (uninstall) the software from your Macintosh, drag and drop the installed file into the Trash.

Please remove the following files from their respective folders.

File Name	Folder Name
RICOH Gate La	System Folder: Control Panels
RICOH Gate La Prefs	System Folder: Preferences
Caplio Mounter	System Folder: Extension
Caplio Mounter Prefs	System Folder: Preferences
Caplio USB Driver	System Folder: Extensions

Uninstalling the Software (For Mac OS X 10.1.2 to 10.3)

When you want to remove the software, follow the steps below.

1. **Start [Caplio Mounter] in [Application] folder.**

2. **Select [Uninstall] in [File] menu.**
   The software is uninstalled.

Or drag and drop the installation files into the Trash.

Please remove the following files from their respective folders.

File Name	Folder Name
Caplio Mounter	/Application
Caplio Mounter Prefs	Home Directory Library/Preferences
CaplioStartup*	/System/Library/Startupitems/CaplioStartup

*Using the Terminal program, enter 'sudo rm -rf /System/Library/Startupitems/CaplioStartup' and delete.

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Section 2 Downloading Images to a Computer

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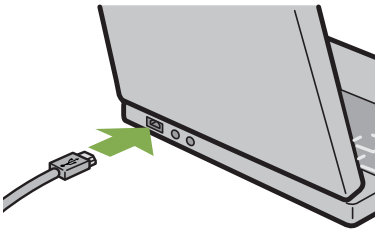
Connecting the Camera to a Computer

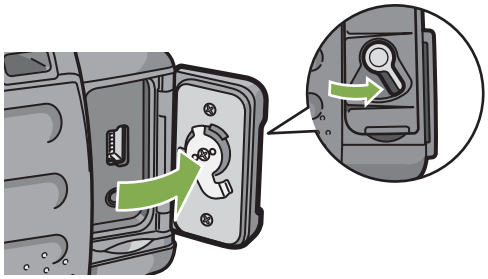
After installing the software on your computer, connect your camera to it.

1 Make sure the camera's power is off.

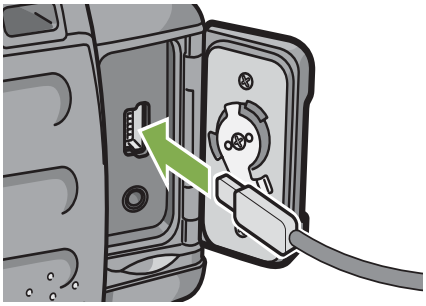
2 Connect the USB cable to the USB port of your computer.



3 Turn the terminal cover knob of the camera in the direction of the arrow to open the cover.



4 Open the terminal cover, and then connect the USB cable to its USB terminal.



Your camera turns on.

- To disconnect your camera from your computer:
  1. Turn your camera off by pressing the power button.
  2. Unplug the USB cable.
- When you are downloading images from your camera, the AC Adapter (sold separately) is recommended.

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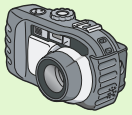
Downloading Pictures to Your Computer

After you have connected your camera to the computer, images downloaded automatically.

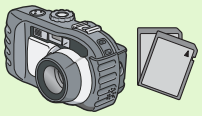
Images are downloaded to your computer from the following memory sources.

When no memory card is loaded



▶▶▶▶▶▶ Downloads from internal memory

When an SD Memory Card is loaded



▶▶▶ Downloads from SD Memory Card

For how to change files names when recording, see P.125.

Downloading methods differ (as described in the following table) depending on the environment used. Follow the steps in the reference pages to download.

For Mac OS 8.6 to 9.2.2	Download using RICOH Gate La.	see P.175
For Mac OS X 10.1.2 to 10.3	Download using the Mounter.	see P.176

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For Mac OS 8.6 to 9.2.2

In Mac OS 8.6, Mac OS 9.1, or earlier versions, a folder called [Caplio] is created inside the root directory on the start-up disc [Macintosh HD].

In Mac OS 9.1 to 9.2.2, a folder called [Caplio] is automatically created inside the [Documents] folder on the start-up disc [Macintosh HD].

1 Connect your camera to the computer using the USB cable.

The camera turns on, RICOH Gate La starts and the RICOH Gate La window appears.

Image Transfer begins automatically.

2 Click on the [File] menu and select [Quit].

RICOH Gate La closes.

Using the Mounter

You can transfer images using the Mounter.

1 Connect your camera to the computer using the USB cable.

Your camera turns on.

When an SD Memory Card is not loaded, the [Caplio] icon is displayed and you can view the image files stored in internal memory.

When an SD Memory Card is loaded, the [Caplio.SD] icon is displayed and you can view the image files stored on the SD Memory Card loaded.

2 Double-click the displayed icon.

It can be handled in the same way as a normal drive. If you double-click the icon, a folder called [DCIM] is displayed and a folder called [100RICOH] within that folder is displayed. The image files you shot are inside the [100RICOH] folder.
Drag and drop the file and then copy to the hard disc.

When using the Mounter, you cannot write data onto an SD memory card.

- If you want to start RICOH Gate La when the camera is not connected, double-click the [RICOH Gate La] icon in the Control Panel folder, which is inside the System Folder.
- Images downloaded by RICOH Gate La are saved in folders with the date of each shot, inside the [Caplio] folder. When using the Mounter, you can specify a folder where the images will be saved.

For how to change the Save Destination Folder, see P.178.

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For Mac OS X 10.1.2 to 10.3

1 Connect your camera to the computer using the USB cable.

Your camera turns on.

When an SD Memory Card is not loaded, the [Caplio] icon is displayed and you can view the image files stored in internal memory.

When an SD Memory Card is loaded, the [Caplio.SD] icon is displayed and you can view the image files stored on the SD Memory Card loaded.

2 Double-click the displayed icon.

It can be handled in the same way as a normal drive. If you double-click the icon, a folder called [DCIM] is displayed and a folder called [100RICOH] within that folder is displayed. The image files you shot are inside the [100RICOH] folder.
Drag and drop the file and copy to the hard disc.

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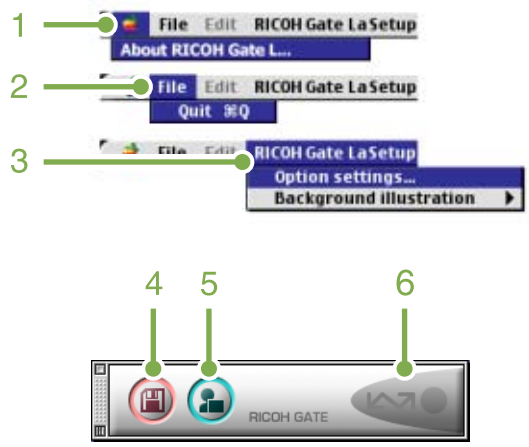
How to Use RICOH Gate La

When you are in the RICOH Gate La window, you can specify settings for each of the various functions, such as automatically saving when connected, the destination for downloading images (save destination), and so on.

The RICOH Gate La Window

Once RICOH Gate La starts up, the following RICOH Gate La menu bar and window appear on the computer screen.



1. **[About RICOH Gate]**
   Displays the version of RICOH Gate La.

2. **[Quit]**
   Closes RICOH Gate La.

3. **[Option settings]**
   Specifies where to save images and which application will launch if you press the Application button or after saving. (See P.178.)

   [Background illustration]
   If you select this, a sub-menu will appear, allowing you to change the background design of the RICOH Gate La window.

Sub-menu Figure

4. **[Save Button]**
   Click this and the images download from your camera.

5. **[Application Button]**
   The application registered in Optional Settings is launched.

6. **[Indicator]**
   The indicator lights if the camera is connected via USB cable.

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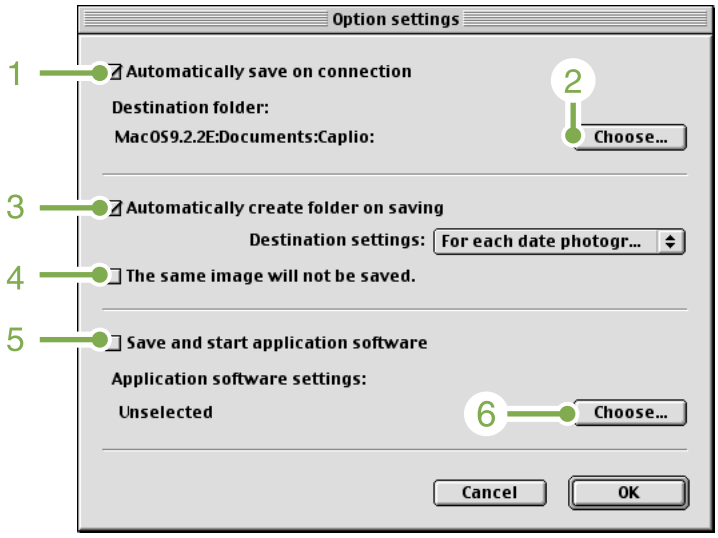
How to Use Optional Settings

If you select [Optional Settings] from the [RICOH Gate Settings] menu, the [Optional Settings] dialog box appears.



Item	Description	Initial Setting
1.[Automatically save on connection]	If you check this box, once your camera is connected to computer, the images are automatically downloaded and saved. If you uncheck the box, even when your camera is connected, your images will not be downloaded automatically. Click the [Save] button when you want to download.	Transfer files automatically
2.[Choose]	Specifies which folder to save your images in. For Mac OS 8.6, Mac OS 9.1, or earlier versions, it is in the [Caplio] folder of the Root Directory on the Start-up disc [Macintosh HD]. For Mac OS 9.1 to 9.2.2, it is specified in the [Caplio] folder inside the [Documents] folder on the Start-up disc [Macintosh HD], so if you want to change it, click the [Select] button and in the dialog box that appears, select the folder you wish to specify.	———
3.[Automatically create folder on saving]	Specifies how to create a folder. [Do not Create] Your downloaded images will all be saved in the folder specified in item 2. [For each date photographs] Creates a new folder assigning the date it was shot as the folder name, and saves images shot on the same day in the same folder. For example, if shot on May 1, 2004: [20040501] folder [Date Transferred + Number Transferred] Creates a new folder for each time images are saved and saves the images shot at the same time in the same folder. For example, if saved twice on May 1, 2004: [20040501_001] folder, [20040501_002] folder	Each day shot
4.[The same image will not be saved.]	You can specify this only when you have selected either [Day Shot] for folder name or if you did not check [Create a folder automatically when transferring] in [Create a Folder]. If you try to save a file to a folder that has an image file of the same name, it will not be saved.	Do not save same image
5.[Save and start application software]	If this is checked, an application will be launched after saving. If this is unchecked, no application will be launched.	Do not start application after transfer
6.[Choose]	Specify the name of the application you want to launch after you save. Click the [Choose] button to display the dialog box, and then specify which application to use.	———

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Chapter 4 Shooting with Camera Memos

Section 1 About Camera Memos

You can attach camera memos (information such as shooting conditions) to the still images you shoot. This section explains camera memos.

- Be sure to set the date and time on the camera. (See P.17.)
- To use the camera memo function, an SD memory card is required.

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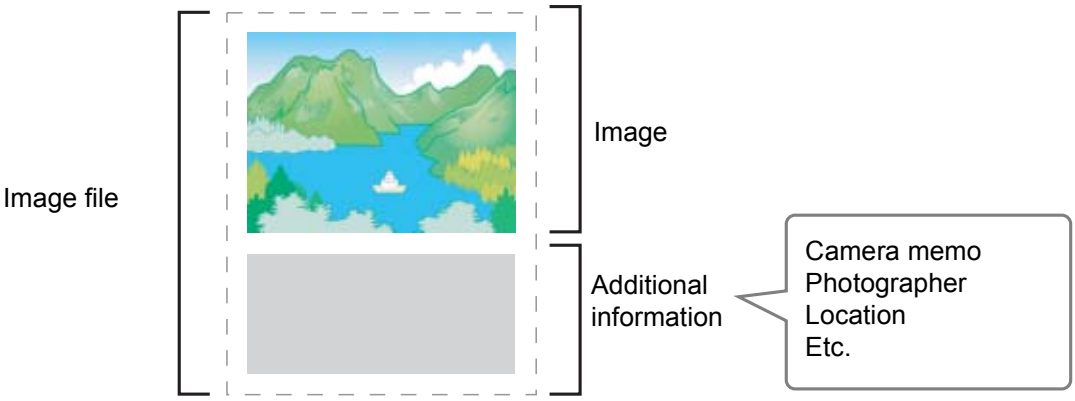
Shooting with Camera Memos

The image file storing the image shot with a digital camera has an area where additional information can be stored. The camera memo function uses this area to allow you to attach a memo to the still image you shoot.



Attaching camera memos facilitates identification, search, and sorting of still images. There are two types of camera memos: text and voice memos.
No camera memo can be attached to a movie or voice file.

Text Camera Memo

You can create a list of text camera memos (camera memo list) using your computer and transfer it to the camera so that you can use them when shooting images with a camera memo. If you want to use data not included in the camera memo list, you can make a temporary memo using the camera. This camera memo is called a "temporary memo." You can also correct the contents of a camera memo list using a temporary memo.

Camera Memo List
Up to 50 camera memos can be registered under each of five categories.

Category
- Date of production
- Place of production
- Brand
- Producer
- Size

Camera Memo
Bing
Rainier
Lambert

Voice Memo

The voice recorded by the camera can be attached as a camera memo. This camera memo is called a"voice memo."

Temporary memos and voice memos are erased when the camera is turned off.

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How to Use Camera Memos

1

Create a camera memo list using your computer and transfer it to the camera. (See P.183.)

- Using the provided software ListEditor, add camera memos to create a camera memo list.
- The created camera memo list is saved on the computer as a camera memo list file (*.mta).
- Load an SD memory card into the camera, connect the camera to the computer with a USB cable, and transfer the camera memo list to the memory card in the camera.

* A camera memo list can be copied directly from the computer to the SD memory card using an optional PC card adapter (sold separately).

2

Shoot a still image with a camera memo.(See P.189.)

- Load an SD memory card storing a camera memo list into the camera, display a camera memo
- list in Shooting Mode, select the camera memo you want to use, and shoot still images. (See P.189.)
- You can create a temporary memo and attach it to a still image. (See P.191.)
- You can attach a memo to a previously shot still image. (See P.196.)
- You can change a camera memo attached to a still image to a different one. (See P.197.)

3

Transfer still images to the computer. (See P.141.)

Connect the camera to the computer using the provided USB cable and transfer still images to the computer. Use the provided software RICOH Gate La to transfer still images.

* Still images stored on the SD memory card can be downloaded to the computer using an optional PC card adapter (sold separately).

4

Using the provided software DU-10x, you can search for, edit, and print a camera memo.

- You can edit, search for, and print a camera memo. (See P.195.)
- You can print a still image with a camera memo printed beside the still image, or print a still image with a camera memo embedded inside the still image. (See P.201.)

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Section 2 Creating a Camera Memo List

This section explains how to create a camera memo list.

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Creating a Camera Memo List

To create a camera memo list, use the provided software ListEditor.
When creating a camera memo list, first define categories and next add camera memos to them.
You can define up to five categories.
Each category can include up to 50 camera memos.

- A camera memo file in csv format created by a different application can be read into the ListEditor and saved on an SD memory card for use by the camera.
- To read a csv-format camera memo file into ListEditor, click [Open] on the [File] menu of ListEditor, and then specify the file name.

Starting and Quitting ListEditor

There are two methods of starting ListEditor.

- **Start from the Windows [Start] menu.**
  On the [Start] menu, point to [Programs], point to [Caplio Software], and then click [ListEditor] to start ListEditor.
- **On the DU-10x screen, click the Start ListEditor icon.**

There are two methods of quitting ListEditor.

- **Click the [x] (Close) button in the upper-right corner of the screen.**
- **Click the QUIT icon.**

How to Use ListEditor

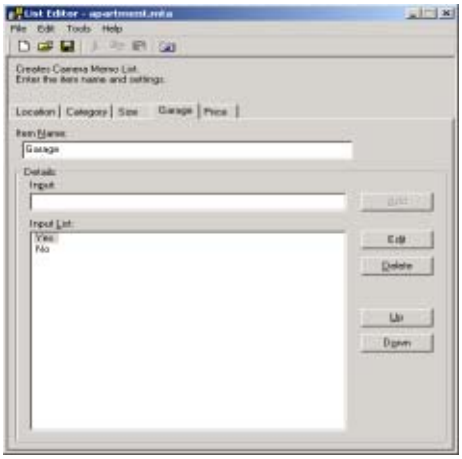
Up to five categories can be defined for a camera memo list file. Each category can include up to 50 text memos and one voice memo.

1 Start ListEditor.

ListEditor starts.
You can also start ListEditor by clicking the Start ListEditor icon on the DU-10n screen.

2 On the [List Title 1] tab, enter a category name in the [LIST TITLE] box.

Up to 20 alphanumeric characters can be entered for a category name.



You can switch between [LIST TITLE] tabs by clicking on another [LIST TITLE] tab.

3 Enter a camera memo in the [CONTENTS] box.

Up to 32 alphanumeric characters can be entered for a camera memo.

4 Click the [ADD] button.

Erase it and enter a camera memo.

5 Repeat steps 3 and 4 to enter all camera

To delete a camera memo, select the camera memo you want to delete and click the [DELETE] button.
To move a camera memo, select the camera memo you want to move and click the [MOVE UP ONE ROW] or [MOVE DOWN ONE ROW] button.

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6 To add another category or camera memo, click the associated [LIST TITLE] tab and repeat steps 2 to 5 .

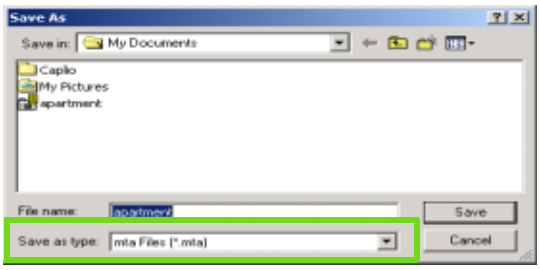
7 Click the [Save] button on the toolbar or click [Save As] on the [File] menu.

Save the camera memo list in the computer before transferring it to the camera. (You can also transfer the camera memo list to the camera directly without saving it in the computer.) The [Save As] dialog box appears.

8 Select the place to save the camera memo list and enter a file name.

9 Make sure a mta file type (*.mta) is selected in the [Save as type] list.

The file can be saved as a csv file. To use the file as a camera list for the camera, a mta file type must be selected.



10 Click the [Save] button.

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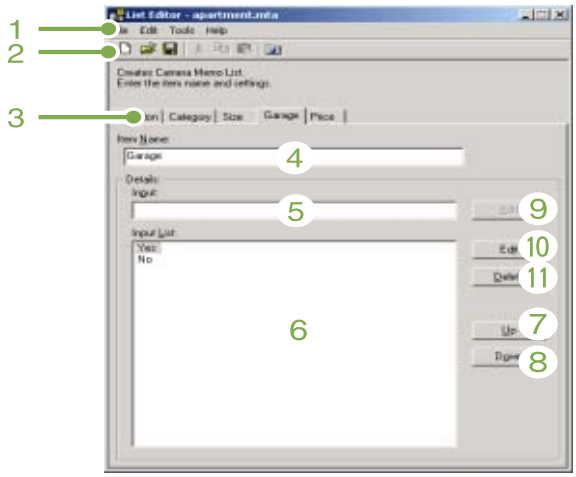
Using the [ListEditor] Dialog Box



1. Menu bar
You can edit and save a camera memo and transfer it to the camera.

2. Toolbar
This bar displays main functions on the menu as icons for easy use by simply clicking them.

[NEW] button
Pressing this button opens the screen to create a new camera memo.

[OPEN] button
Pressing this button opens the camera memo list file saved on the computer.

[SAVE AS] button
Pressing this button saves a camera memo list in the computer. You can select a mta or csv file type. To use the file as a camera memo list for the camera, save it as an mta file.

[CUT], [COPY], and [PASTE] buttons
Pressing these button cuts, copies or pastes the selected text.

[TRANSFER TO CAMERA] button
Pressing this button transfers a camera memo list to the TEMPLATE folder in the memory card.

- If a camera memo list file of the same name already exists in the memory card, the file is overwritten.
- •Note that only one camera memo list can be transferred to the camera for use.
- Note that only one camera memo list can be registered in an SD memory card.
- If you transfer a camera memo list with a different name from that in the SD memory card, save the camera memo list in the SD memory card onto the computer before transferring.
- A camera memo list will not be deleted even if you format the memory card using the camera's card formatting function in the SETUP mode.

3. [List Title] tab
You can switch between screens for each category name.

4. [LIST TITLE] box
Enter a list title in this box.

5. [CONTENTS] box
Enter a camera memo in this box.

6. Contents list display field
A list of entered camera memos is displayed.

7. [MOVE UP] button
Pressing this button scrolls the camera memo list one row upward.

8. [MOVE DOWN] button
Pressing this button scrolls the camera memo list one row downward.

9. [ADD] button
Pressing this button appends a new camera memo.

10. [EDIT] button
Pressing this button allows you to edit a camera memo selected in the [Contents] list. (The memo can be corrected in the [Contents] box.)

11. [DELETE] button
Pressing this button deletes the camera memo selected in the contents list display field.

Editing a Camera Memo List
To correct the camera memo list stored in the computer, open the camera memo list by clicking the [OPEN] button, correct the camera memo list, and overwrite it by clicking the [SAVE] button.

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Transferring the Camera Memo List to the Camera

Transferring from ListEditor

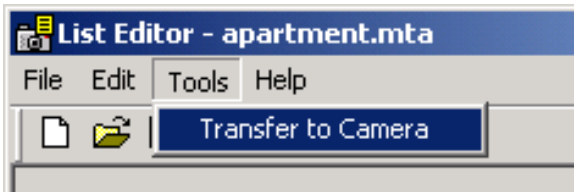
1. **Make sure the camera is turned off.**

2. **Load an SD memory card for saving the camera memo list.**

3. **Connect the provided USB cable to the USB port of the computer.**

4. **Open the terminal cover of the camera and insert the USB cable plug in the USB port.**
   The camera is turned on. In this case, the LCD monitor is held off but the flashing lamp and auto focus lamp indicate that the camera power is on.
   If file transfer from the camera to the computer starts when the USB cable is connected, wait until the file transfer ends.

5. **Click the [Transfer to Camera] button on the toolbar or click [Transfer to Camera] on the [Tool] menu.**



   The camera memo list is saved in the SD memory card loaded to the camera through the USB cable and a message indicating successful transfer completion appears.

6. **Click the [OK] button.**

7. **Click [QUIT] on the [File] menu.**
   ListEditor closes.
   You can also quit ListEditor by clicking the [x] (Close) button in the upper-right corner of the screen.

8. **Press the Power button of the camera to turn off the camera.**

9. **Disconnect the USB cable between the camera and computer.**

Now, turning on the camera allows you to use the camera memory list stored on the memory card.

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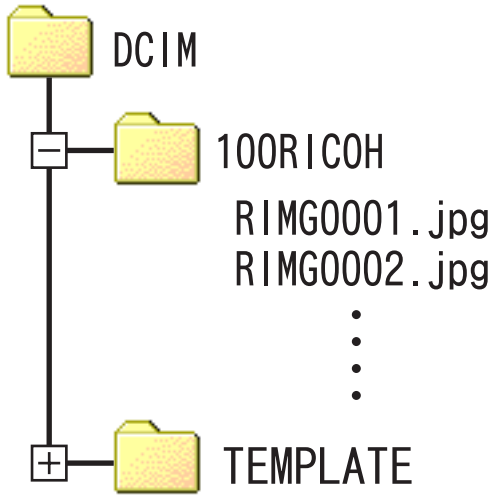
Using the PC Card Adapter

With the PC card adapter (FM-SD53) sold separately, you can transfer the camera memo list directly from the computer to the SD memory card.
Save the camera memo list in the TEMPLATE folder in the SD memory card. The TEMPLATE folder is automatically created when the SD memory card is formatted by the camera format function.



1. **Install the PC card adapter into the computer to be ready for use.**

2. **Load an SD memory card on the PC card adapter.**

3. **Follow Steps 1 to 7 of "How to Use ListEditor".**

4. **Select the TEMPLATE folder in the SD memory card loaded on the PC card adapter, and then enter a file name. The camera memo list is saved in this file.**

5. **Make sure [mta File(*.mta)] is selected in the [File Type] box.**

6. **Click the [Save] button.**
   The camera memo list is saved into the SD memory card. By loading this SD memory card on the camera, the camera memo list can be used.

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Section 3 Shooting with Camera Memos

By using a camera memo list stored on an SD memory card, you can shoot a still image with a memo.
This chapter explains shooting with camera memos.

For how to create a memo, see P.183.

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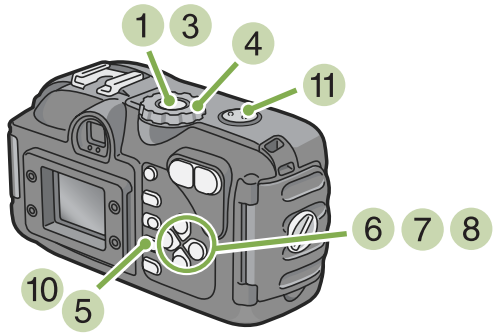
Shooting with Camera Memos

You can attach camera memos to the still images you shoot. Create a camera memo list with the bundled software (ListEditor) and record it on an SD memory card. Even when shooting in Scene Mode, you can shoot an image with a camera memo.

To shoot an image with a camera memo, follow the steps below.

Buttons used here



1 Make sure that the camera is turned off.

2 Load an SD memory card with a camera memo list into your camera.

3 Turn the camera on.

4 Set the Mode Dial to (Shooting Mode). Press the OK button.

The Camera Memo screen displays the first camera memos in the categories in the camera memo list.

6 Press the ▲▼ buttons to select a memo category and change its contents.

7 Press the ▶ button to display the Memo List screen.

8 Press the ▲▼ buttons to select a memo, and then the OK button.

If a temporary memo has been attached, its contents are displayed up to the end of the first row. If a voice memo has been attached, a speaker icon is displayed.

To enter a temporary memo, select [Temporary Memo Input]. (See P.191.) You can also record a voice memo by selecting [Record]. (See P.204.)

9 Repeat steps 6 to 8 to set the camera memo you want to use.

When you do not want to use a camera memo, click [NO SETTING] on the camera memo list screen.

10 Press the OK button to confirm the camera memo.

A MEMO mark appears in the lower-right corner of the screen. This mark indicates that images will be shot with a camera memo.

11 Press the shutter button to shoot an image with a camera memo.

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To Quit Shooting with Memos

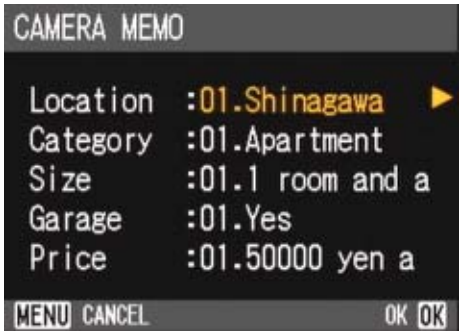
When the Memo mark is displayed, pictures are shot with camera memos.

To clear the Memo mark to quit shooting with a camera memo, follow the steps below.

1 Set the Mode Dial to (Shooting Mode).

2 Press the OK button.

The Memo screen appears..



3 Press the MENU button.

The MEMO mark disappears and the Camera Memo mode is turned off. To resume shooting with camera memos, press the [OK] button to display the Camera Memo screen.

- Even when the Camera Memo screen is displayed, you can shoot by pressing the shutter button.
  You cannot shoot pictures with camera memos in any of the following modes:
  Auto bracket
  White balance bracket
  Movie shooting
  Voice recording
- You can also attach a camera memo to a still image after it is taken.

- For how to view a camera memo attached to a still image, see P.189.
- For how to attach a camera memo to a still image, see P.196.
- For how to register, play back or change a voice memo, see P.204.
- For how to create a camera memo, see P.183.
- For how to create or correct a temporary memo, see P.191.

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Create or Correct a Memo Temporarily (Temporary Memo)

Camera memos are edited or corrected on a computer, but you can create or edit a temporary memo on the camera and attach it to a still image when shooting. This camera memo temporarily created is referred to as a "temporary memo".

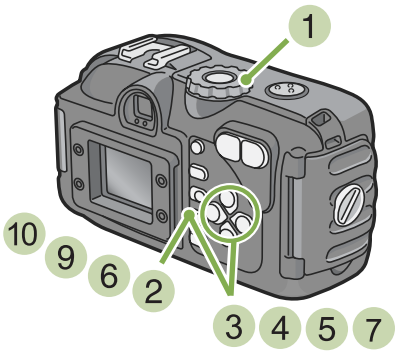
- The temporary memo is not stored in the camera memo list on the SD memory card and is lost when the camera power is turned off.
- Only alphanumeric characters can be used for a temporary memo.
- When using a temporary memo, create a camera memo list on the computer in advance and transfer the list to the camera.

For how to create a camera memo, see P.183.

Creating a Temporary Memo

To create a temporary memo, follow the steps below.

Buttons used here



1 Turn the Mode Dial to (Shooting Mode) or (Playback Mode).

2 Press the OK button.
The Memo screen appears.

3 Press the ▲▼ buttons to select a category of the camera memo for registration.

4 Press the ▶ button to display the Memo List screen.

When using a new camera memo list file, the Camera Memo Re-registration screen may appear before the Memo List screen. Press the ▶ button to select [YES], and then press the OK button to display the camera memo list screen.

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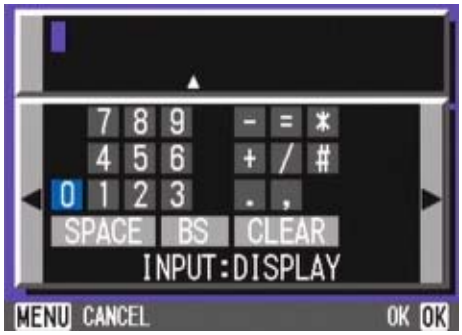
5 Press the ▲▼ buttons to select [Temporary Memo Input].

6 Press the OK button.
The edit confirmation screen appears.

7 Press the ▶ button to select [YES], and then press the OK button.
The Keyboard screen appears.



8 Use the keyboard to enter a memo (alphanumeric characters).

Move Cursor	▲▼▼◀▶ buttons
Enter Character	DISP button
Cancel	MENU button
Set	OK button

For instructions on using the keyboard, see "How to Use the Keyboard (P.210)".

9 After completing the memo input, press the OK button to return to the camera memo list screen.
For a temporary memo. only one line of characters at the top appears.

10 Press the OK button to return to the Camera Memo screen.

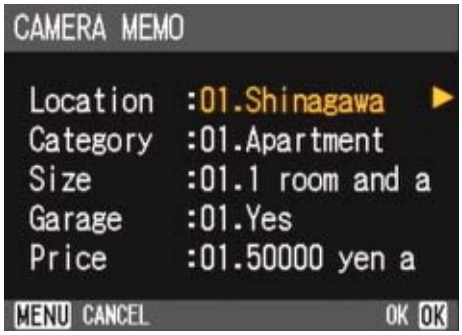
11 To register additional memos, repeat steps 3 to 10 .

Correcting a Temporarily Memo

To correct a temporarily memo, follow the steps below.

1 Turn the Mode Dial to (Shooting Mode) or (Playback Mode).

2 Press the OK button.
The Camera Memo screen appears.



3 Press the ▲▼ buttons to select a category of temporary memo for correction.

4 Press the ▶ button to display the camera memo list screen.
When using a new camera memo list file, the Camera Memo Re-registration screen may appear before the Memo List screen. Press the ▶ button to select [YES], and then press the OK button to display the camera memo list screen.

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5 **Press the ▲▼ buttons to select [Temporary Memo Input (item with +)].**

6 **Press the ▶ button.**
The edit confirmation screen appears.

7 **Press the ▶ button to select [YES], and then press the OK button.**
The Keyboard screen appears.

8 **Correct the memo with the keyboard (alphanumeric characters).**

Move Cursor	▲▼▼◀▶ buttons
Enter Character	DISP button
Cancel	MENU button
Set	OK button

For instructions on using the keyboard, see "How to Use the Keyboard (P.210)".

9 **After correcting the camera memo, press the OK button to return to the camera memo list screen.**

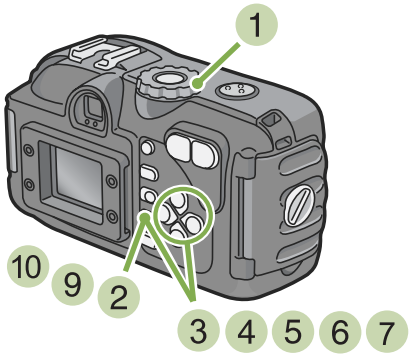
10 **Press the OK button to return to the Camera Memo screen.**

11 **If there are any more memos to correct, repeat steps 3 to 10 .**

Correcting a Camera Memo to Create a New Temporary Memo

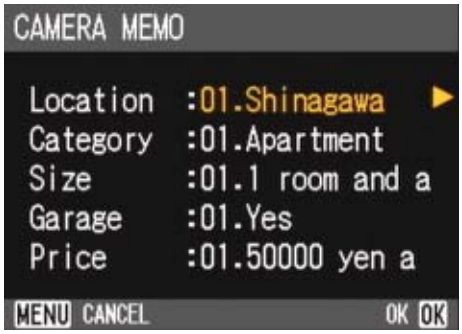
A temporary memo can be newly created by correcting an existing camera memo registered in the camera memo list file.
To create a temporary memo by correcting a camera memo in the camera memo list file, follow the steps below.

Buttons used here



1 **Turn the Mode Dial to 📷 (Shooting Mode) or ▶ (Playback Mode).**

2 **Press the OK button.**
The Camera Memo screen appears.



3 **Press the ▲▼ buttons to select a category of the camera memo for registration.**

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4 Press the ▶ button to display the camera memo list screen.

When using a new camera memo list file, the Camera Memo Re-registration screen may appear before the Memo List screen. Press the ▶ button to select [YES], and then press the OK button to display the camera memo list screen.

5 Press the ◀▶ buttons to select a camera memo you want to correct.

6 Press the ▶ button.
The edit confirmation screen appears.

7 Press the ▶ button to select [YES], and then press the OK button.
The Keyboard screen appears.

8 Correct the memo by using the keyboard.

Move Cursor	▲▼▼◀▶ buttons
Enter Character	DISP button
Cancel	MENU button
Set	OK button

For instructions on using the keyboard, see "How to Use the Keyboard (P.210)".

9 After correcting the camera memo, press the OK button to return to the camera memo list screen.
For a temporary memo, only one line of characters appears at the top.

10 Press the OK button to return to the Camera Memo screen.

11 If there is any more camera memo to correct, repeat steps 3 through 10 .

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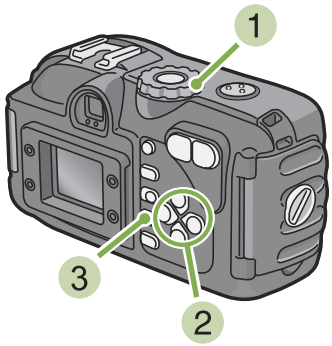
Viewing/Correcting a Camera Memo Attached to a Still Image

You can view and delete a camera memo attached to a still image.
You can view a camera memo attached to a still image. If a displayed still image has an attached camera memo, a MEMO mark is displayed in the lower-right corner of the screen. If a still image has a voice memo, you can play it back.

To view or delete a camera memo, follow the steps below.

Buttons used here

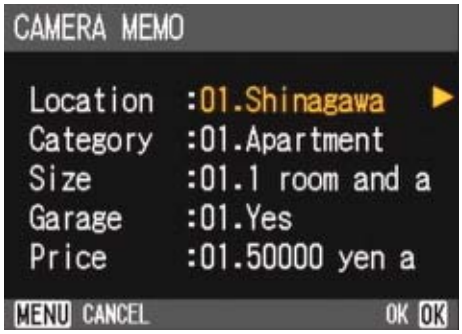


Viewing a Camera Memo

1 Turn the Mode Dial to ▶ (Playback Mode).
The last still image is displayed.
For a movie, the first frame is displayed as a still image.

2 Press the ◀▶ buttons to select a still image and view its memo.
Press the ▶ button to display the next file.
Press the ◀ button to display the previous file.
Hold the ◀▶ buttons down for fast display and positioning.

3 Press the OK button.
A memo is displayed from the still image.

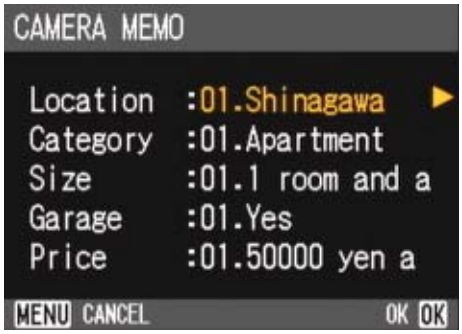


Pressing the OK button clears the memo display and returns the display to the original still image.
To playback a voice memo, press the ▲▼ buttons to select the speaker icon, and then press the ADJ. button to start playback.

Deleting a Camera Memo

1 Display a still image from which you want to delete a camera memo.

2 Press the OK button.
The camera memo attached to the still image appears.



3 Press the MENU button.
The camera memo is deleted.

- For how to shoot an image with a camera memo, see P.189.
- For how to attach a camera memo to a still image, see P.196.
- For how to create a camera memo, see P.183.
- For how to register, play back or change a voice memo, see P.204.
- For how to create or correct a temporary memo, see P.191.

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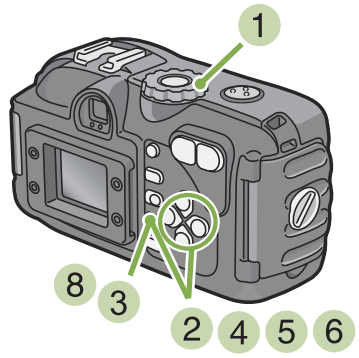
Attaching a Camera Memo to a Still Image

A Camera Memo can be attached to a shot still image afterward.

To attach a camera memo to an image, follow the steps below.

Buttons used here



1 Turn the Mode Dial to ▶ (Playback Mode).
The last still image is displayed.
For a movie, the first frame is displayed as a still image.

2 Press the ◀▶ buttons to select a still image and view its memo.
Press the ▶ button to display the next file.
Press the ◀ button to display the previous file.
Hold the ◀▶ buttons down for fast display and positioning.

3 Press the OK button.
A memo is displayed from the still image.

4 Press the ▲▼ buttons to select a category of the camera memo to attach.

5 Press the ▶ button to display the camera memo list screen.

6 Press the ▲▼ buttons to select the camera memo to attach, and then press the OK button.
If a temporary memo has been attached, its contents are displayed up to the end of the first row. If a voice memo has been attached, a speaker icon is displayed. To select a temporary memo, click [TEMPORARY]. To select a voice memo, click the speaker icon.

7 Repeat steps 4 to 6 to set the camera positioning.
When you do not want to use a camera memo, click [NO SETTING] on the camera memo list screen.

8 Press the OK button to determine the camera memo.

- For how to shoot an image with a camera memo, see P.189.
- For how to create a camera memo, see P.183.
- For how to register, play back or change a voice memo, see P.204.
- For how to create or correct a temporary memo, see P.191.

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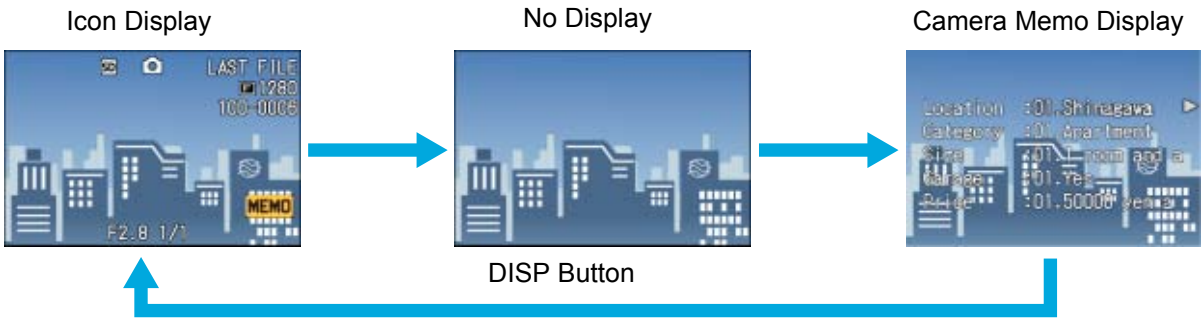
Displaying and Changing a Camera Memo Attached to a Still Image on the Camera

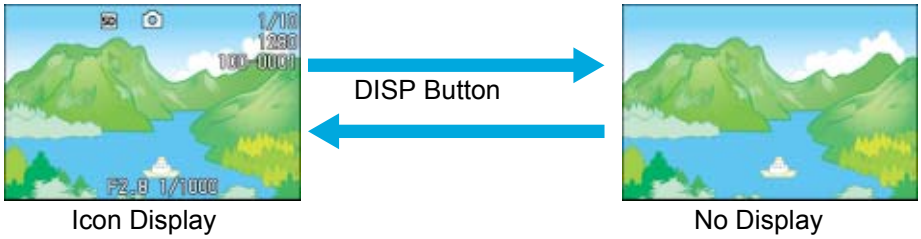
Displaying a camera memo

Each time you press the DISP button for a still image with camera memo, the LCD monitor view cycles in the order of Icon Display, No Display, and Camera Memo Display.
For a still image with no camera memo, the LCD monitor view cycles in the order of Icon Display, No Display, and Icon Display.

With camera memo



With no camera memo



Changing a Camera Memo

To make a change to a memo, follow the steps below.

Buttons used here

1 Turn the Mode Dial to ▶ (Playback Mode).
The last still image is displayed.
For a movie, the first frame is displayed as a still image.

2 Press the ◀▶ buttons to select a still image and change its memo.
Press the ▶ button to play back the next still image, movie, or voice.
Press the ◀ button to play back the previous still image, movie, or voice.
Hold the ◀▶ buttons down for fast positioning.

3 Press the OK button.
The camera memo attached to the still image is displayed.

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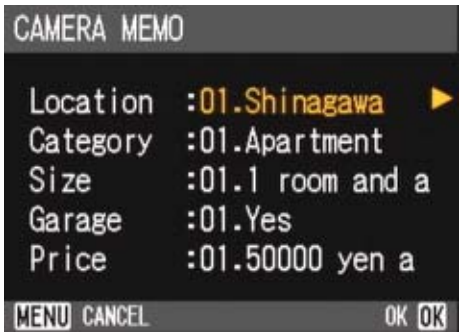
4 Press the ▲▼ buttons to select a category of the camera memo you want to change its contents.



5 Press the ▶ button to display the camera memo list screen.

When using a new camera memo list file, the Camera Memo Re-registration screen may appear before the Memo List screen. Press the ▶ button to select [YES], and then press the OK button to display the camera memo list screen.

6 Press the ▲▼ buttons to select a camera memo and press the OK button.

If a temporary memo has been attached, its contents are displayed up to the end of the first row. If a voice memo has been attached, a speaker icon is displayed. To select a temporary memo, click [TEMPORARY]. To select a voice memo, click the speaker icon.

7 Repeat steps 4 to 6 to make all necessary changes to memos.

When you do not want to use a camera memo, click [NO SETTING] on the camera memo list screen.

8 Press the button to confirm the camera memo.

- For how to shoot an image with a camera memo, see P.189.
- For how to attach a memo to a shot still image, see P.196.
- For how to view a memo attached to a still image, see P.195.
- For how to create a camera memo, see P.183.
- For how to register, play back or change a voice memo, see P.204.
- For how to create or correct a temporary memo, see P.191.

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Displaying and Confirming a Camera Memo Attached to a Still Image and Correcting It

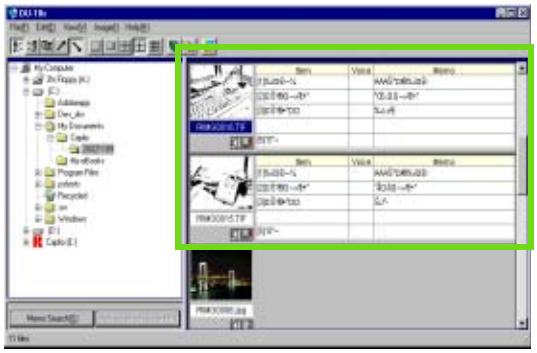
Using the provided software DU-10x allows you to display, correct, search for a camera memo attached to a still image.

Viewing a Camera Memo on the Computer

When DU-10x is started, images (still images and movies) are displayed as thumbnails. A [Memo Setting Y/N Display] mark is displayed at the bottom of each thumbnail, allowing you to check whether a camera memo is attached. A red pencil icon is displayed for an image with a camera memo.

To display and confirm the thumbnail contents, change the thumbnail display size. To display a camera memo, perform the following operation:

1. **Select [Display size] from the [View] menu and then select [Medium+memo] from the submenu.**
   Thumbnails with a camera memo appear.



A memo attached to a still image can be temporarily corrected in the camera.

- For how to create a memo, see P.183.
- For how to shoot a still image with a memo, see P.189.
- For how to correct a memo temporarily, see P.191.

Editing a Camera Memo

To edit a camera memo, perform the following steps.

1. **Double-click the memo mark ([Memo Setting Y/N Display]) at the bottom of a thumbnail.**
   The [Edit Memo] dialog box appears. You can edit only the images with a camera memo. Note that a red pencil icon is displayed for an image with a camera memo.
   The [Edit Memo] dialog box appears.

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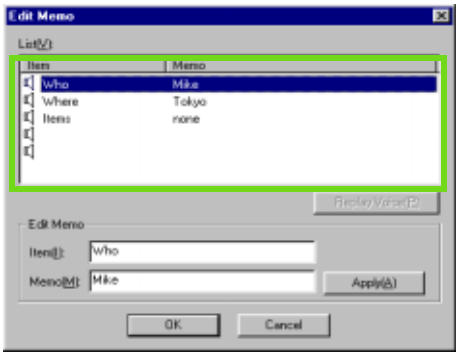
2 Click the memo you want to correct in the memo list.



3 Correct the contents displayed in the [Item] and [Memo] boxes.

4 Click the [Apply] button.

5 The correction is reflected in the list.If there are any more camera memos to correct, repeat steps 2 to 4 .

Clicking the [Replay Voice] button plays back a voice memo.

6 Click the [OK] button.

Searching for a Camera Memo

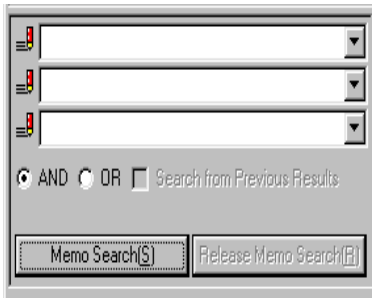
To search for a camera memo, follow the steps below.

1 Click a folder in the folder display area for search.

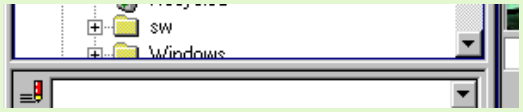
To search in subfolders too, click the [Display All in Folder] icon.

2 Enter a keyword in the search bar area for searching memos.

- Several keywords can be entered to narrow down the search results. Select [AND] to search for memos matching all of the keywords or [OR] to search for memos matching any of the keywords.
- If [Search from Previous Results] is checked, the previous search results can further be narrowed down.



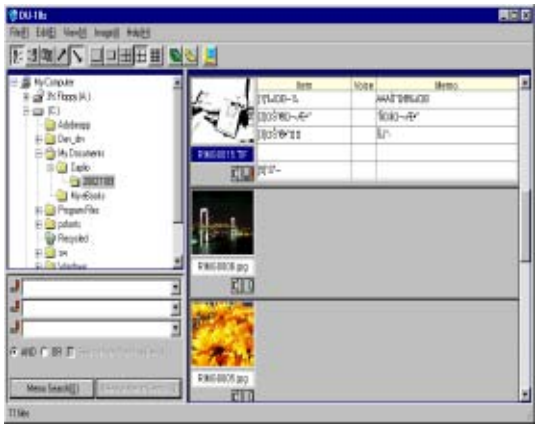
If the search bar area is not displayed, move the borderline at the bottom of the folder display area.



3 Click the [Search Memo] button.

Search is executed and the search results are displayed in the thumbnail display area.

To clear the search result display, click the [Release Memo Search] button.



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Printing Camera Memos Attached to Still Images

Using the provided software DU-10x allows you to print camera memos attached to still images. Either of the following two printing methods can be selected:

- **To print a camera memo beside an image**
- **To print a camera memo with it embedded inside the still image**

Printing an Image and a Camera Memo

To print an image and a camera memo, follow the steps below.

1. **Select [Print Setup] from the [File] menu.**
   The [Print Setup] dialog box appears.

2. **Select (1 × 3) or (1 × 1) in [Print Type].**
   When you have selected (1 × 3), a camera memo is printed beside the still image. When you have selected (1 × 1), a camera memo is embedded in the still image.

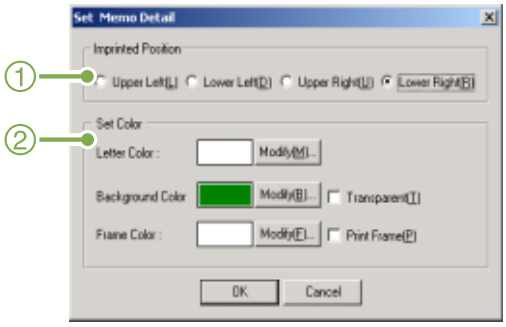
1x3

1x1

3. **When you have selected (1 × 3), check [Print Image Memo]. When you have selected (1 × 1), check [Print with Memo].**
   When you have selected (1 × 1) for the printing type, you can specify a memo position and a color by clicking the [Set Memo Detail] button.
4. **Click the [Print] button.**
5. **The [Print] dialog box appears. Click the [OK] button.**

For details on the printing function of DU-10x, see P.163.

How to Use the [Set Memo Detail] Dialog Box



1. **[Memo Embedding Position]**
   Select the memo position on an image.

2. **[Set Memo Background Color]**
   Enables you to set the memo color.

   [Set Memo Character Color]
   Bring up the [Color Setup] dialog box to enable you to set the memo character color.

   [Set Background Color]
   Bring up the [Color Setup] dialog box to enable you to set the background color.

   [Set Frame Color]
   Bring up the [Color Setup] dialog box to enable you to set the memo frame color.

   [Transparent]
   Check this to make the item background transparent (no filling).

   [Print Frame]
   Check this to print a memo frame.

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Section 4 Using Voice Memos

This section explains operations related to a voice memos, such as registration and use of voice memos.

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About Voice Memos

You can register voice recorded with a camera in the camera memo list. This is called a voice memo.

A voice memo is erased when the camera is turned off.

How to Use Voice Memos

1 **Create a voice memo. (See P.204.)**

Catalog a camera memo in the camera memo list using the camera. You can confirm a voice memo by playing it back before attaching it to a still image.

2 **Shooting with a Voice Memo. (See P.189.)**

Shoot a still image with a voice memo attached in the same manner as for a text camera memo.

3 **Play back the voice memo attached to a still image. (See P.208.)**

Using the provided software DU-10x allows you to play back a voice memo.

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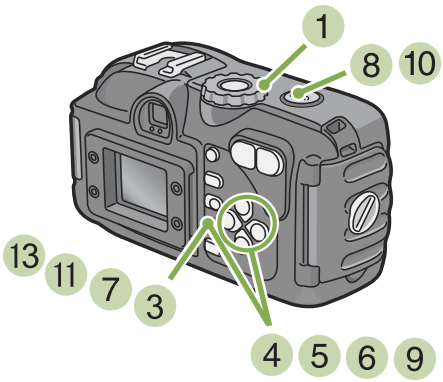
Registering (Recording)/Playing Back/Changing a Voice Memo

One voice memo can be registered for each category (up to five categories) registered in the camera memo list. Voice memos can be as long as eight seconds. Voice memos can be registered even in the Scene Mode. Registered voice memos can be played back/changed.
With the ADJ. button, you can register (record), play, or change a voice memo in fewer steps compared to ordinary button operations.

Registering a Voice Memo

To register a voice memo, follow the steps below.

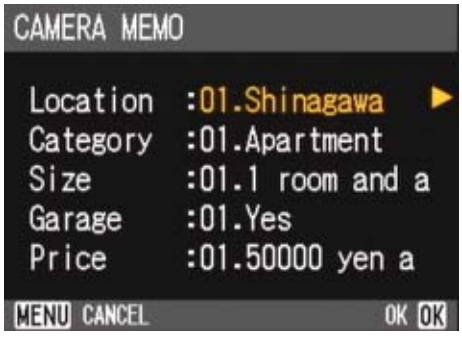
Buttons used here



1 Set the Mode Dial to (Shooting Mode) or (Playback Mode).

2 In the Playback mode, display a still image to which you want to attach a camera memo.

3 Press the OK button.
The Memo screen appears.



You can shoot, zoom, or quick-review images also on this screen.

4 Press the ▲▼ buttons to select a voice memo category for registration.

5 Press the ▶ button to display the camera memo list screen.
You can simplify the operating procedure by pressing the ADJ. button instead of the ▶ button. Pressing the ADJ. button skips steps 6 and 7, jumps to step 8, and returns to the camera memo screen after a voice memo is recorded.

6 Press the ▲▼ buttons to select Record.

7 Press the OK button to display the Record screen.

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8 Press the shutter button.

Voice recording starts and can continue for up to eight seconds. To stop voice recording halfway, half-press the shutter button. When voice recording is stopped, the display returns to the camera memo list screen.

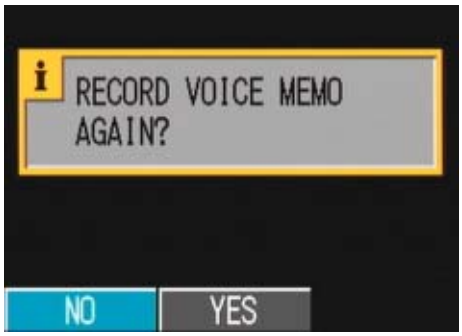
9 Press the ▶ button

The Voice Playback screen appears.

10 Press the shutter button.

The recorded voice memo is played back for confirmation. To stop playback halfway, press the shutter button.

When playback is stopped or ends, the Re-registration Confirmation screen appears.



11 Select [NO] and press the OK button.

The display returns to the Memo List screen.

To record again, select [YES] and press the OK button to start from step 8 .

12 If there are any more voice memos to change, repeat steps 4 to 11 .

13 Press the OK button.

The display returns to the Camera Memo screen.

- The distance from the sound source and the microphone must be 20 cm or less.
- Do not block the microphone opening with your finger.

- For how to shoot an image with a camera memo, see P.189.
- For how to view a camera memo attached to a still image, see P.196.
- For how to create a camera memo, see P.183.

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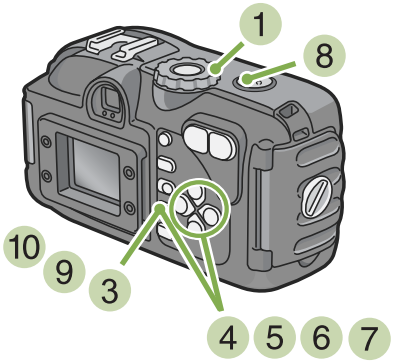
Playing Back a Voice Memo

Buttons used here



1 Turn the Mode Dial to (Shooting Mode) or (Playback Mode).

2 In the Playback mode, display a still image to change its voice memo.

3 Press the OK button.

4 Press the ▲▼ buttons to select a category of the voice memo you want to play back.

5 Press the ▶ button to display the camera memo list screen.
You can simplify the operating procedure by pressing the ADJ. button instead of the ▶ button. Pressing the ADJ. button skips steps 6 and 7, jumps to step 8, and returns to the camera memo screen after the voice memo is played back.

6 Press the ▲▼ buttons to select [Playback].

7 Press the ▶ button to display the playback screen.

8 Press the shutter button.
Playback begins. When playback ends, the Re-registration Confirmation screen appears.

9 Select [NO] and press the OK button.
The display returns to the Memo List Screen.

10 Press the OK button.²
The display returns to the Memo Screen.

10 If there are any more voice memos to playback, repeat steps 4 to 10 .

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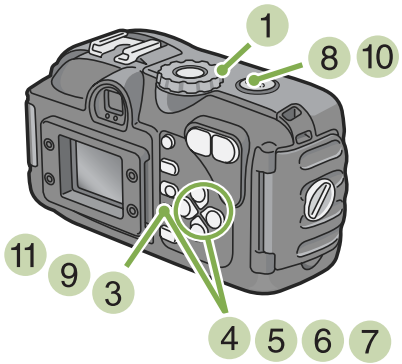
Changing a Voice Memo

Buttons used here



1 **Turn the Mode Dial to (Shooting Mode) or (Playback Mode).**

2 **In the Playback mode, display a still image for playback of its voice memo.**

3 **Press the OK button.**

4 **Press the ▲▼ buttons to select a category of the voice memo you want to change.**

5 **Press the ▶ button to display the camera memo list screen.**
You can simplify the operating procedure by pressing the ADJ. button instead of the ▶ button. Pressing the ADJ. button skips steps 6 and 7, jumps to step 8, and returns to the camera memo screen after the voice memo is re-recorded.

6 **Press the ▲▼ buttons to select [Playback].**

7 **Press the ▶ button to display the playback screen.**

8 **Press the shutter button.**
Playback begins. When playback ends, the Re-registration Confirmation screen appears.

9 **Select [YES], and then press the OK button.**

10 **Press the shutter button to record again.**
When recording ends, the display returns to the camera memo list screen.

10 **Press the OK button.**
The display returns to the Camera Memo screen.

11 **If there are any more voice memos to change, repeat steps 4 to 11 .**

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Playing Back and Confirming a Voice Memo Attached to a Still Image

When DU-10x is started, images (still images and movies) are displayed as thumbnails. A [Memo Setting Y/N Display] mark is displayed at the bottom of each thumbnail, allowing you to check whether a voice memo is attached.
A red speaker icon is displayed for an image with a voice memo.

Play Back the Voice Memo

To play back the voice memo, perform the following steps:

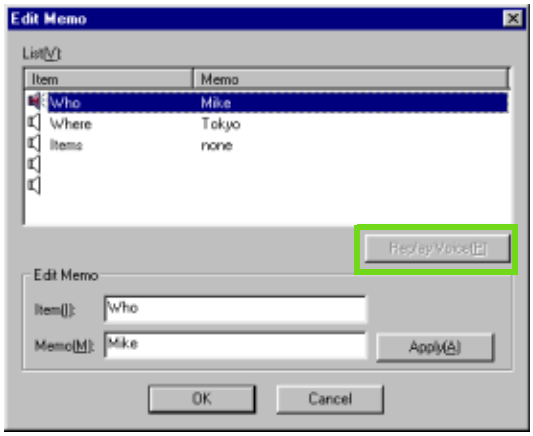
1. **Start DU-10x.**

2. **Double-click the memo mark ([Memo Setting Y/N Display]) at the bottom of a thumbnail with a voice memo to be converted to a text memo.**

The [Edit Memo] dialog box appears.

3. **Click the memo you want to correct in the memo list.**

4. **Click the [Replay Voice] button.**



The voice memo cannot be played back if your computer has no speakers.

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Appendices

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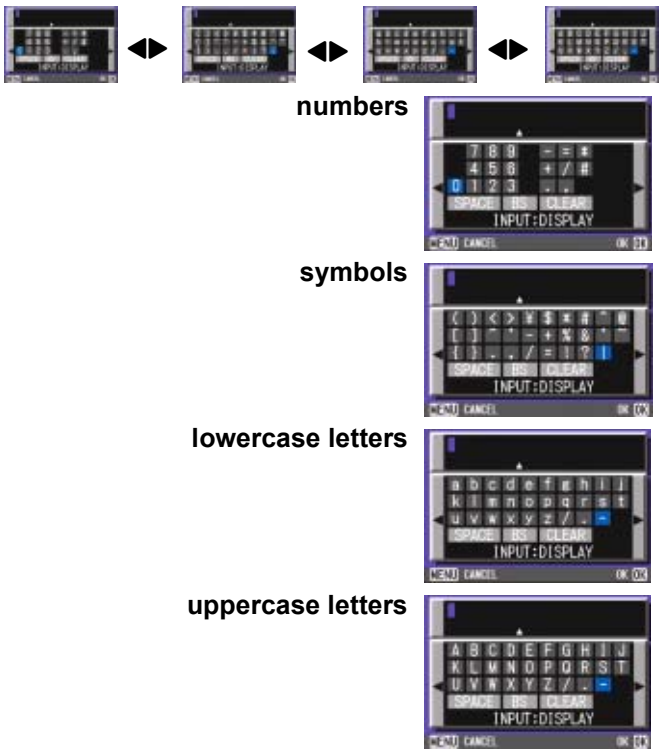
A. How to Use the Keyboard

To use keyboard, follow the steps below.

Switching between letters and numbers

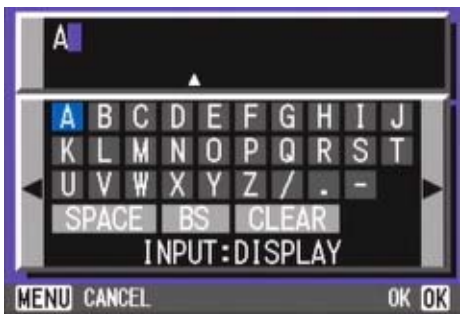
When there is a cursor at the leftmost or rightmost character on the keyboard, press the ◀▶ buttons to switch the character type between numbers, symbols, lowercase letters, and uppercase letters.



Entering a character

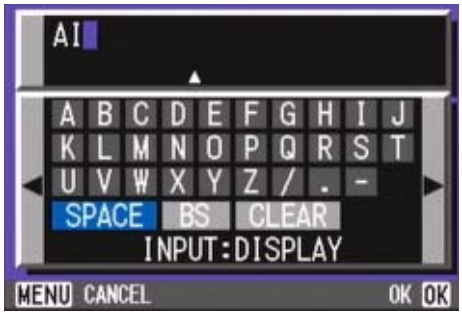
1. **Press the ▲▼◀▶ buttons to select a character to input.**
2. **Press the DISP button.**

   The input edit area permits input up to the ▲ mark at the bottom of the area.



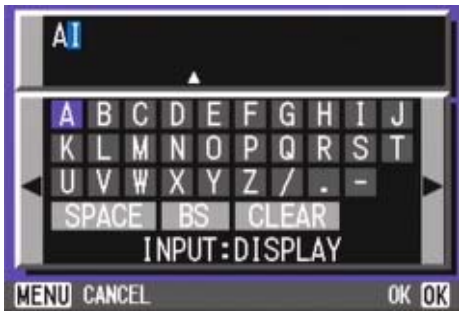
Entering a blank (space)

1. **Press the ▲▼◀▶ buttons to move the cursor to the bottom of the keyboard, and then press the ▼ button.**
2. **Press the ◀▶ buttons to select [SPACE].**
3. **Press the DISP button.**



Correcting a character

1. **Press the ▲▼◀▶ buttons to select one of the characters at the top of the keyborad.**
2. **Press the ▲ button.**
   The cursor moves to the input characters.



3. **Press the ◀▶ buttons to select the character you want to correct.**
4. **Press the ▼ button to return the cursor to the keyboard.**
5. **Press the ▲▼◀▶ buttons to select an input character.**
6. **Press the DISP button.**

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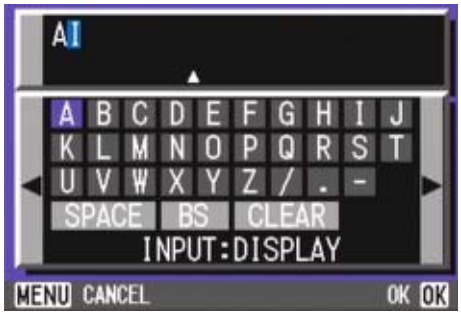
Erasing a character

1. **Press the ▲▼◀▶ buttons to select one of the characters at the top of the keyboard.**

2. **Press the ▲ button.**
   The cursor moves to the input characters.

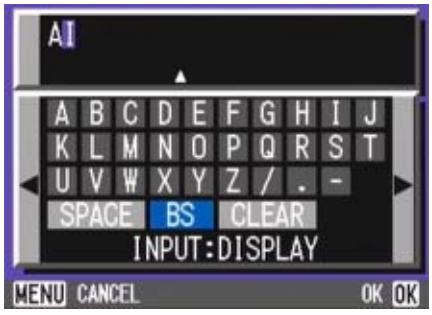


3. **Press the ◀▶ buttons to select the character immediately after (to the right of) the character you want to erase.**

4. **Press the ▼ button to return the cursor to the keyboard.**

5. **Press the ▲▼◀▶ buttons to select [BS].**

6. **Press the ◀▶ buttons to select [BS], and then press the DISP button.**

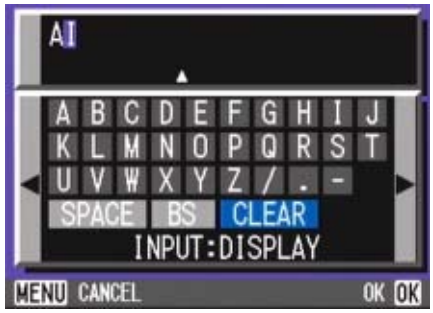


Erasing all input characters

1. **Press the ▲▼◀▶ buttons to move the cursor to the bottom of the keyboard, and then press the ▼ button.**

2. **Press the ◀▶ buttons to select [CLEAR].**

3. **Press the DISP button.**



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B. Specifications

Camera

General

Video Signal Format	: NTSC, PAL
Power Source Voltage	: AA Dry Alkaline Batteries (1.5 V) × 2
	: Rechargeable Battery (3.7 V) × 1
	: External Part (AC Adapter); 3.8 V
External Dimensions	: 135mm (W) × 69.5 mm (H) × 75.1 mm (D) (excluding projecting parts)
Weight	: Approx. 355g (excluding battery/SD Memory Card/Neck Strap/LCD Hood)
Operating Temperature Range	: 0°C to 40°C
Operating Humidity Range	: 85% or less
Storage Temperature Range	: -20°C to 60°C
Water resistance	: JIS protection grade 7-equivalent
Dust resistance	: JIS protection grade 6

Camera Parts

Image Pickup Used	: Total 3.34 million pixels (effective pixels 3.24 million)
Lens	: Zoom Lens F2.6 to 4.3
• Focal Length	: F: 4.2 to 12.7 mm (35 mm equivalent, 28 to 85 mm)
• Minimum shooting range	: Approx. 1 cm (0.4") (Macro Mode)
• Macro Shooting Distance	: 1 to 60 cm
• Digital Zoom	: 3.4 times
Monitor Display Parts	
• Screen Size	: 1.6"
• Type	: Translucent Amorphous Silicon TFT LCD
• Pixel Count	: Approx. 80,000
White Balance	: AUTO/Fixed (Daylight, Overcast, Tungsten light, Fluorescent light, One Push)
Exposure Adjustment	
• Light Metering Sensitive Distribution	
	: Multi Light Metering (256 segments), Center-weighted Light Metering, Spot Metering
• Exposure Compensation	: Manual Exposure Compensation +/-2.0EV (1/3EV Steps)
• Metering Method	: TTL-CCD Metering Method
• Flash AE	: Yes (In Daylight Synchro: On)
• Shutter	: Still Images: 8, 4, 2, 1 to 1/2000 second; Movies: 1/30 to 1/2000 sec
• ISO Sensitivity	: In AUTO, ISO 125, ISO 200, ISO 400, ISO 800
Distance Control	
• AF Method	: Normal Shooting: External Passive / CCD method; Macro: CCD method
• AF Measurement Range	: Normal: approx. 30 cm (11.7") - infinity Macro: approx. 1 - 60 cm (0.4" to 24") (at Wide)
Internal Flash	
• Method	: Flashmatic
• Shooting Distance	: Wide: approx. 0.2 to 5.0 m; Tele: approx. 0.09 to 3.3 m
• Operating Modes	: Flash Off/Forced flash/Auto/Slow synchro/Red-eye reduction

Image Data Record/Replay Part

Pixels	
• Still Images	: 2048 × 1536, 1280 × 960, 640 × 480
• Text	: 2048 × 1536, 1280 × 960
• CALS Mode	: 1280 × 960
• Movies	: 320 × 240, 160 × 120
File Formats	
• Still Images	: Compressed; JPEG (Exif2.2)
• Text	: TIFF (MMR Method ITU-T.6)
• Movies	: AVI (Open DML Motion JPEG Format Compliant)
• Sounds	: WAV (Exif Ver.2.2 μ law)

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Camera File System Standard : DCF (DCF is an abbreviation for "Design rule for Camera File system", a JEITA standard)
Compression Format : JPEG Baseline Format Compliant (Still, Movie)
Image Size
• 2048 × 1536 : N; approx. 568KB/Screen, F; approx. 1.12MB/ Screen
• 1280 × 960 : N; approx. 307KB/Screen, F; approx. 614KB/ Screen
• 640 × 480 : N; approx. 72KB/ Screen

I/O Terminals

DC In : 3.8 V (AC Adapter)
Video Out : 1.0 Vp-p (75 Ω)

Date Maintain Time

: Approx. 2 weeks

Memory Cards that can Record, Playback

Memory Type : SD Memory Card, Multi-Media Card

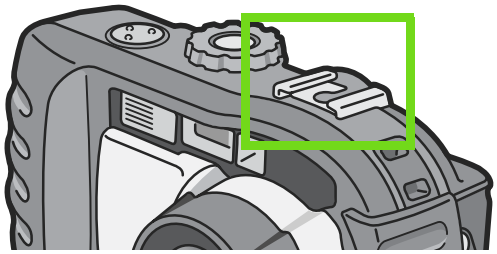
C. Optional Accessories

The Caplio 400G wide can be used with the items (sold separately) listed below.

Item	Model	Remarks
AC Adapter	AC-4a	For when you want to supply power directly from a wall outlet.
PC Card Adapter	FM-SD53	For when you want to load an SD Memory Card directly into your computer's PC Card Slot.
Rechargeable Battery	DB-43	Available for this camera.
	DB-40	
Battery Charger	BJ-2	This is a special high-speed (rechargeable) battery charger.
Rechargeable Battery Set	BS-3	Includes the Rechargeable Battery (DB-43) and Battery Charger (BJ-2).

D. Using the Accessory Shoe

An optical finder (available in stores) or external flash (available in stores) can be used by attaching it to the accessory shoe.



• The accessory shoe conforms to JIS B7101.
• You cannot use an optical finder or external flash with no spring or lock mechanism.

The accessory shoe does not support a synchronizer contact.

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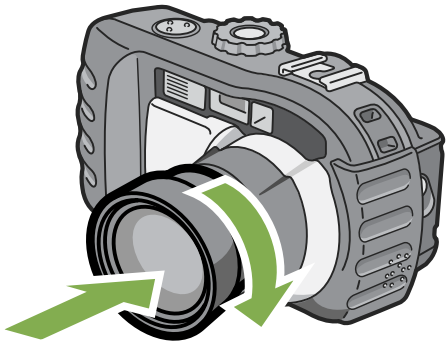
E. Using a Wide Conversion Lens

A wide conversion lens (DW-4) realizes shooting at a lens magnification of 0.8 time (equivalent to a 35mm camera's 22 mm zoom in wide-angle).

1 Attach the wide conversion lens to the tip of the lens of this camera.



For cleaning and storage, see the document that came with your wide conversion lens.

When shooting with the lens attached, be sure to view the image on the LCD monitor of the camera. (The finder does not show the actual shooting range.) When the wide conversion lens is attached, set the zoom position to the wide angle end. If the shutter button is pressed on the Tele side, the camera may not be focused. Even on the Tele side, press the shutter button slowly to focus the camera.

F. SD Memory Card Recording Capacities

The following table shows the approximate number of images that can be recorded onto an SD memory card at various image size and picture quality settings.

Mode	Picture Quality	Image Size	8MB	32MB	64MB
Still Image	F	2048×1536	4	19	40
	N	2048×1536	8	37	77
	F	1280×960	8	37	75
	N	1280×960	14	67	138
	N	640×480	43	189	387
Text		2048×1536	14	67	138
		1280×960	43	189	387
Movie		320×240	20 Seconds	90 Seconds	180 Seconds
		160×120	70 Seconds	320 Seconds	650 Seconds
Sound			14 Min 02 S	64 Min 38 S	132 Min 13 S

G. Using Your Camera Abroad

The AC Adapter (Model AC-4a)

- Can be used in regions with a current of 120V, 50Hz/60Hz.
- If you are going to travel to a country that uses a different shaped wall outlet/plug, please consult your travel agent on a plug Adapter suitable for wall outlets in your country of destination.

The Warranty

- This product is for domestic use. The warranty is only valid domestically.
- In the unlikely event that a failure or breakdown should occur while abroad, please be aware there is no after-sales service or compensation for repairs.

Using Playback on Television in other Regions

- Playback is possible on televisions (or monitors) equipped with a video input terminal. Please use the video cable provided.
- This camera is compatible with both NTSC and PAL television formats. Switch the video format on the camera to match the television environment in the region.
- When you go overseas, set your camera to the local video format.

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H. Cautions on Use

Waterproofing

- Although this camera conforms to the specification for the JIS Protection Level 7.
  After shooting in the rain or cleaning in water, water may seep through the eyepiece of the lens segment and the tripod screw holes on the underside. This is not a problem because these sections are of double structure.
- The internal mechanisms of the camera is neither waterproof nor dustproof.
- Should water enter the inside of the camera, remove the batteries immediately and contact the Ricoh Repair Center.
- In a sandy beach or a dusty place such as a construction site, pay sufficient attention to prevent sand or dust from adhering to the camera.

Cautions on Use

- When opening and closing the camera, take care to prevent water droplets or contaminants adhering to the camera from entering its inside. If possible, avoid opening or closing the camera at the beach, near the sea, or in sandy soil to prevent seawater or sand from entering its inside.
- When opening and closing the side cover or battery chamber lid, operate them with bare hands, without wearing work gloves. If the camera has contaminants (such as water, sand, or mud) adhering to it, make sure it is completely removed, and then open and close the camera in a place it where it will not be exposed to such dirt.
- Because of its airtight structure, variations in atmospheric pressure may decrease the ease of opening the side cover or battery chamber lid.
- Because of its waterproof structure, the Mode Dial may be hard to turn after you have left it, as it is, for hours. If this occurs, operate the dial several times to restore it to the initial state.
- In a sandy beach or a dusty place such as a construction site, pay sufficient attention to prevent sand or dust from adhering to the camera.
- Do not leave the camera in places where there are extremes of temperature or humidity, such as in a closed car, at the seashore, or in a bathroom.
- Before connecting the (optional) AC adaptor, make sure the camera is off.
- Do not force the side cover or battery chamber lid.
- Do not lift the camera by the side cover or battery chamber lid.
- If water droplets enter the inside of the camera, immediately stop using it. Then, power off the camera, remove the batteries or battery, and leave all the covers and lids open. Do not use the camera with water droplets inside. Instead, consult the dealer or the Ricoh Repair Center.
- In cold climates, if the camera has water droplets adhering to its surface, they may freeze. Using the camera with water droplets frozen may cause it to fail. So, do not leave the camera as it is, with ice adhering to the camera.
- Be sure not to drop or apply any sudden force to the camera.
- Firing the flash consecutively may heat the firing unit. Do not fire it consecutively more than necessary.
- Do not fire the flash near eyes, or view the sun or other strong light directly through the viewfinder. It could cause visual impairment (particularly for infants).
- Do not fire the flash near the driver of a vehicle to avoid causing accidents.
- The batteries may become hot after extended use. Touching the batteries immediately after use could result in burns to your fingers.
- If the LCD monitor or panel is exposed to sunlight, they may become washed out and images may become hard to view.
- The LCD monitor and panel may contain some pixels that do not remain lit up continually in part or at all. Also, the brightness may become uneven because of the characteristics of LCDs. These are not failures.
- While you are carrying the camera, be careful not to hit it against other objects.
- In an environment where the temperature changes suddenly, condensation may occur in the camera, resulting in troubles such as fogging of the glass surface or malfunctions of the camera. If this occurs, place the camera in a bag to slow the temperature change as much as possible. Take it out of the bag after the temperature difference from the atmosphere has decreased to a fairly small amount.

Conditions in which condensation may easily occur

- When the camera is moved to an environment where the temperature differs greatly.
- In humid places
- In a room immediately after being heated, or when the camera is exposed directly to cooled air from an air-conditioner or another similar appliance

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I. Care and Storage

Care

- Please note that if fingerprints, dirt, etc. get onto the lens, picture quality will suffer.
- When dust or dirt does get on the lens, do not touch it directly with your fingers, and either use a blower (available in stores) to blow it off, or a soft cloth to gently dust it off.
- If the camera has gotten dirty, take the following steps: Make sure the battery/card cover and terminal cover are securely closed. Then, clean the camera in tap water in a vessel such as a bucket. Remove sand and salt from the camera. Finally, wipe water off its surface using a soft cloth.
- If the rubber packing has gotten dirty, wipe dirt off its surface using a soft cloth. If the dirt cannot be removed, request the dealer or the Ricoh Repair Center to replace the packing.
- After use at the beach or around chemicals, wipe it off particularly carefully.
- In the unlikely event that your camera fails to work properly, please consult your Ricoh Repair Center.
- There are high voltage circuits in this camera. As this is dangerous, do not dismantle this camera under any circumstances.
- Do not get volatile substances, such as thinner, benzene, or pesticides on your camera. This may cause a change in quality, paint to peel, etc.
- As the surface of the LCD Monitor is easily scratched, do not rub hard objects against it.
- Please clean the surface of the LCD Monitor with solvents available on the market specially for cleaning LCD display surfaces. Gently wipe with a soft cloth dampened with a little cleaner.

Storage

- Please avoid storing your camera in the following kinds of places, as breakdown may result.
  - In high heat and humidity, or where there is severe change in temperature or humidity.
  - Places with a lot of dust, dirt or sand.
  - Places with severe vibration.
  - In places of direct contact with vinyl products, rubber or chemicals, such as insect repellent, etc.
  - Places with strong magnetic fields (monitors, next to strong magnets, etc.).
- If you are using a battery or batteries, remove them if you are not going to use the camera for a long period of time.

Replacing the rubber packing

- To maintain the waterproof ability, replace the rubber packing every two years, regardless of whether it has gotten dirty. If you use the camera frequently in a wet, sandy, or dusty environment, we recommend replacing the packing every year.
  The replacement will be performed by the Ricoh Repair Center on a chargeable basis.

Precautions regarding care of your camera

1. Be sure to turn the power off.
2. Remove the batteries or AC Adapter before caring for your camera.

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J. Troubleshooting

Refer to the symptoms and measures listed below before sending the camera for repairs. If the problem persists, contact your nearest Ricoh Service Center.

Power Supply

Symptom	Cause	Measure	Page
The power does not come on.	Batteries are not loaded. Or they are exhausted.	Load the batteries correctly. Recharge or use the AC Adapter.	P.12 P.13 P.14
	The AC Adapter is not connected correctly.	Reconnect it properly.	P.14
	Because the camera overheated the power was automatically turned off.	Wait until the temperature of the camera returns to normal. Do not attempt to cool the camera suddenly.	-
The power cuts out during use.	The camera was left unattended and unused, so Auto Power-Off shut it off.	Turn the power back on.	P.16 P.123
	Batteries are running low.	If you are using alkaline batteries, replace them. If you are using a rechargeable battery, recharge it or use the AC Adapter.	P.12 P.13 P.14
The power does not go off.	Camera malfunction.	Reload batteries. If using the AC Adapter, reconnect it.	P.12 P.13 P.14
Cannot recharge the batteries.	Battery life.	Replace the batteries with a new set.	P.13
Batteries run out quickly.	They are being used in extreme high or low temperatures.	-	-
	Many shots are being taken in dark places inside, requiring flash.	-	-

Shooting

Symptom	Cause	Measure	Page
Even if I press the button, the camera does not shoot.	Batteries are not loaded. Or they are exhausted.	If using alkaline batteries, replace the batteries with a new set. If using rechargeable batteries, recharge or use the AC Adapter.	P.12 P.13 P.14
	The power is not on. Or the camera is not in Shooting Mode.	Turn the power on and turn the Mode Dial to Shooting Mode.	P.16 P.10
	The shutter button is not pressed all the way.	Press the shutter button all the way.	P.36
	The Memory Card is not formatted.	Format the card.	P.121
	The Memory Card does not have any free space.	Load a new card, or delete unwanted files.	P.18 P.101
	End of Memory Card life.	Load a new Memory Card.	P.18
	The flash is recharging.	Wait until the flash lamp stops blinking.	P.51
	The SD Memory Card is "locked".	Release the "Lock (write-protection)".	P.18
	The SD Memory Card's contact surfaces are dirty.	Wipe off with a soft, dry cloth.	-
I cannot check shot images.	The image confirmation time is too short.	Lengthen the image confirmation time.	P.126

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Symptom	Cause	Measure	Page
Images do not appear on the LCD Monitor.	The power is not on. Or the LCD Monitor is dark.	Turn the power on. Or adjust the brightness of the LCD Monitor.	P.16 P.127
	The AV cable is connected.	Disconnect the AV cable.	P.100
	The screen display status is in [SYNCHRO-MONITOR MODE].	Press the DISP button and switch display.	P.24
	It is set to [Power-Save].	Set [Power-Save] to off.	P.123
Although it is set to Auto Focus, it does not focus.	The lens or **AF** Window is dirty.	Wipe clean with a soft, dry cloth.	-
	The subject is not in the center of the shooting range.	Shoot with Focus Lock.	P.38
	It is a hard-to-focus subject.	Shoot with Focus Lock or Manual Focus.	P.38 P.75
The flash does not fire. Or the flash cannot recharge.	The Shooting Mode is set to (Multi-Shot) or (Movie).	Switch the Shooting Mode to (Still Image).	P.51
	The flash is set to (Flash Off).	Set to Flash Off with the button.	P.51
	The White Balance is set to something other than Auto mode.	Set the White Balance to Auto mode.	P.60
	Batteries are running low.	If using alkaline batteries, replace with a new set. If using rechargeable batteries, recharge or use the AC Adapter.	P.12 P.13 P.14
Even though the flash fired, the picture is dark.	The distance to the subject is greater than 3.3 meters in Telephoto or greater than 5.0 meters in Wide-angle.	Get closer to your subject and shoot.	P.51
The image is too bright.	You are too close to the subject.	Set to Flash Off with the button.	P.51
	It is over-exposed.	Use exposure compensation. Cancel Exposure Time.	P.57 P.82
	The brightness of the LCD Monitor is odd.	Adjust the brightness of the LCD Monitor.	P.127
The image is too dark.	The shot was taken in a dark place while set to (Flash Off).	Release the Flash Off with the button.	P.51
	It is under-exposed.	Use exposure compensation. Set to Exposure Time.	P.57 P.82
	The brightness of the LCD Monitor is odd.	Adjust the brightness of the LCD Monitor.	P.127
The image lacks natural color.	The picture was shot in conditions that are hard for Auto White Balance to adjust to.	Add a white object to the composition. Or use Auto Balance in a setting other than Flash shooting or Auto Mode.	P.60
The date, or recording information does not appear.	The screen display function is set to No Display.	Press the DISP button and switch display.	P.24
The brightness of the LCD Monitor changes during AF.	You are using it in a dark place or when Auto Focus range and surrounding brightness are different.	This is normal.	-
There is a vertical smear on the image.	This is a phenomenon that occurs when a bright subject is shot. It is called the smear phenomenon.	This is normal.	-

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Playback/Deleting

Symptom	Cause	Measure	Page
Cannot Playback. Or the Playback screen does not come out.	It is not set to ▶ (Playback).	Turn the Mode Dial to ▶ (Playback Mode).	P.91
	The AV cable was not connected properly.	Reconnect it properly.	P.100
	The video format is set wrong.	Set to correct format.	
The contents of SD Memory Card cannot be replayed, or the replay screen does not appear.	A Memory Card is not loaded. Or a Memory Card with no stored images is loaded.	Load a card with stored images.	P.18
	You played back a Memory Card that was not formatted by this device.	Load a card that was formatted and stored on by this device.	P.121
	You played back a Memory Card that was not recorded normally.	Load a normally recorded card.	P.18
	The Memory Card's contact surfaces are dirty.	Wipe with a soft, dry cloth.	-
	There is something wrong with the Memory Card.	Play another card and if there is nothing wrong with it, the camera is OK. There may be something wrong with the card, so do not use it.	-
An image disappeared.	Batteries are running low.	If using alkaline batteries, replace with a new set. If using rechargeable batteries, recharge or use the AC Adapter.	P.12 P.13 P.14
	The camera was left unattended and not used, so Auto Power-Off shut it off.	Turn the power back on.	P.16
Files cannot be deleted.	The file has been set to protect.	Release the protection.	P.111
	The SD Memory Card is "locked".	Release the "Lock (write-protection)".	P.18
Cannot format a Memory Card.	The SD Memory Card is "locked".	Release the "Lock (write-protection)".	P.18

Other Problems

Symptom	Cause	Measure	Page
Cannot load the Memory Card.	The card is facing the wrong way.	Load correctly.	P.18
Even when the camera's buttons are pressed, it does not operate.	Batteries are running low.	If using alkaline batteries, replace with a new set. If using rechargeable batteries, recharge or use the AC Adapter.	P.12 P.13 P.14
	Camera Malfunction.	Turn the power off once, turn it back on and switch to 📷 (Still Image).	P.16 P.10
		Remove batteries once and load them again. Reconnect the AC adapter cable properly, if using.	P.12 P.13 P.14
The date is wrong.	The correct date/time are not set.	Set the correct date/time.	P.17
The date set has disappeared.	The batteries were removed.	If the batteries are removed for about two weeks, the date setting will be lost. Make the settings again.	P.17
Auto Power-Off does not work.	Auto Power-Off is set to OFF.	Set the time for Auto Power-Off.	P.123
The beep does not sound.	The camera is set to silent.	Set the beep to ON.	P.124
Images do not appear on the TV.	The video format is set wrong.	Set to correct format.	P.130
	The cable is not connected.	Reconnect the cable properly.	P.100
	The TV in/out switch is incorrectly set.	Check that the TV in/out switch is set correctly.	-

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About connecting to your computer/software

Symptom 1 Cannot download images

Measure 1

The free space on the hard disk in your computer may be insufficient.
Check whether the hard disk has a space for running Windows, and if the drive for loading image files has a capacity at least that of the SD memory card inserted in the camera.

Measure 2

The batteries may have worn out.
Check whether the batteries have worn out. If worn out, replace them with new ones. (See P.11.)

Measure 3

The image loading software 'Ricoh Gate La' has not been activated.
Check whether the Ricoh Gate La icon is displayed in the task tray at the right end of the task bar on your computerÅfs display. If not displayed, Ricoh Gate La has not been activated. To activate Ricoh Gate La, click the [Start] menu, point to [Programs], point to [Caplio Software], and then click [Ricoh Gate La].

Measure 4

Your camera may not be recognized correctly if you connect to the USB Port of your computer via a USB hub.
Follow the steps below to change the USB port.

- **Connect your camera directly to the USB port of your computer.**
- **If there are several root ports, change to another one.**

If you are using a port other than USB, connect via a USB port.

Measure 5

For Windows 98/98SE/Me, the COM Port setting may be wrong.
Follow the steps below:

1. Connect your camera via the USB cable to your computer.
2. Click the [Start] button on the Windows taskbar to display the [Start] menu.
3. On the [Start] menu, point to [Settings], and then click [Control Panel].
4. On the Control Panel displayed, double-click the [System] icon.
5. On the [System Properties] screen displayed, double-click the [Device Manager] tab.
6. On the [Device Manager] tab page displayed, click the [+] on the left side of [Port COM/LPT].
7. Click [Ricoh Camera Port] under [Port COM/LPT], and then click the [Properties] button at the bottom of the [Device Manager] tab.
8. On the [Ricoh Camera Port Properties] screen displayed, Click the [Port Select] tab.
9. On the [Port Select] tab page displayed, select a COM Number not being used from [PortName].
   The port (COM number) currently allocated for your camera is indicated by a "*".Immediately after installing the USB driver, COM 7 should be selected, so select a number above COM8.
10. Click [OK] to close the [Ricoh Camera Port Properties] screen.
11. Click [OK] to close the [System Properties] screen.
12. Click the [x] (Close) button to close the Control Panel.

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Measure 6

Your computer may not recognize the camera correctly.
Follow the steps below.

- **For Windows 98/98SE/Me**

Step 1 First, follow the steps below.

1. Load the Caplio CD-ROM into your computer.
2. Connect your camera via the USB cable to your computer.
3. Click the [Start] button on the Windows taskbar to display the [Start] menu.
4. On the [Start] menu, point to [Settings], and then click [Control Panel].
5. On the Control Panel displayed, double-click the [System] icon.
6. On the [System Properties] screen displayed, double-click the [Device Manager] tab.
7. On the [Device Manager] tab page displayed, click [+] on the left side of [Other Devices].
8. Check if there is [Caplio 400G] below it. If there is, click [Caplio 400G], and then click the [Delete] button at the bottom of the [Device Manager] tab. The entry [Caplio G4] is deleted.
9. Click [OK] to close the [System Properties] screen.
10. When the display returns to the Control Panel, double-click the [Add/Remove] icon.
11. On the [Add/Remove Applications Properties] screen displayed, select [Caplio Software], and then click the [Add/Remove] button. This uninstalls the Caplio Software.
12. Click [OK] to close the [Add/Remove Applications Properties] screen.
13. Click the [x] (Close) button to close the Control Panel.
14. Turn off your camera and computer.
15. Turn your computer back on and reinstall the software from the CD-ROM.
    *At this time, do not connect your camera.
16. Connect your camera via the USB cable to your computer. When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

Step 2 If your computer still does not recognize the camera, follow the steps below.

1. Load the Caplio CD-ROM into your computer.
2. Connect your camera via the USB cable to your computer.
3. Click the [Start] button on the Windows taskbar to display the [Start] menu.
4. On the [Start] menu, point to [Settings], and then click [Control Panel].
5. On the Control Panel displayed, double-click the [System] icon.
6. On the [System Properties] screen displayed, double-click the [Device Manager] tab.
7. On the [Device Manager] tab page displayed, click the [+] on the left side of [Port COM/LPT] to open.
8. Check whether or not there is an unknown device symbol (!) indicated for [Ricoh Camera Port]. If there is, select it, and then click the [Delete] button at the bottom of the [Device Manager] tab to delete it.
9. Click [+] on the left side of [Universal Serial Controller] to open.
10. Check whether or not there is an unknown device symbol (!) indicated for [RICOH USB Virtual COM] below it. If there is, select it, and then click the [Delete] button at the bottom of the [Device Manager] tab to delete it.
11. Click [OK] to close the [System Properties] screen.
12. When the display returns to the Control Panel, double-click the [Add/Remove Applications] icon.
13. On the [Add/Remove Applications Properties] screen displayed, select [Caplio Software], and then click the [Add/Remove] button. This uninstalls the Caplio Software. Check whether the batteries have worn out. If worn out, replace them with new ones.
14. Click [OK] to close the [Add/Remove Applications Properties] screen.
15. Click the [x] (Close) button to close the Control Panel.
16. Turn off your camera and computer.
17. Turn your computer back on and reinstall the software from the CD-ROM.
    *At this time, do not connect your camera.
18. Connect your camera via the USB cable to your computer. When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

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- **For Windows 2000**

Step 1 First, follow the steps below.

1. Load the Caplio CD-ROM into your computer.
2. Connect your camera via the USB cable to your computer.
3. Click the [Start] button on the Windows taskbar to display the [Start] menu.
4. On the [Start] menu, point to [Settings], and then click [Control Panel].
5. On the Control Panel displayed, double-click the [System] icon.
6. On the [System Properties] screen displayed, double-click the [Hardware] tab.
7. On the [Hardware] tab page displayed, click the [Device Manager] button.
8. On the [Device Manager] screen displayed, click [+] on the left side of [Other Devices].
9. Check if there is [Caplio G4] below it. If there is, click [Caplio 400G], and then click the [Delete] button at the bottom of the [Device Manager] tab. The entry [Caplio 400G] is deleted.
10. Click [OK] to close the [Device Manager] screen.
11. Click [OK] to close the [System Properties] screen.
12. When the display returns to the Control Panel, double-click the [Add/Remove Applications] icon.
13. On the [Add/Remove Applications Properties] screen displayed, select [Caplio Software], and then click the [Add/Remove] button. This uninstalls the Caplio Software.
14. Click [OK] to close the [Add/Remove Applications Properties] screen.
15. Click the [x] (Close) button to close the Control Panel.
16. Turn off your camera and computer.
17. Turn your computer back on and reinstall the software from the CD-ROM.
    *At this time, do not connect your camera.
18. Connect your camera via the USB cable to your computer. When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

Step 2 If your computer still does not recognize the camera, follow the steps below.

1. Load the Caplio CD-ROM into your computer.
2. Connect your camera via the USB cable to your computer.
3. Click the [Start] button on the Windows taskbar to display the [Start] menu.
4. On the [Start] menu, point to [Settings], and then click [Control Panel].
5. On the Control Panel displayed, double-click the [System] icon.
6. On the [System Properties] screen displayed, double-click the [Hardware] tab.
7. On the [Hardware] tab page displayed, click the [Device Manager] button.
8. On the [Device Manager] page displayed, click [+] on the left side of [Port COM/LPT] to open.
9. Check whether or not there is an unknown device symbol (!) indicated for [Ricoh Camera Port]. If there is, select it, and then click the [Delete] button at the bottom of the [Device Manager] tab to delete it.
10. Click [OK] to close the [System Properties] screen.
11. When the display returns to the Control Panel, double-click the [Add/Remove Applications] icon.
12. On the [Add/Remove Applications Properties] screen displayed, select [Caplio Software], and then click the [Add/Remove] button. This uninstalls the Caplio Software.
13. Click [OK] to close the [Add/Remove Applications Properties] screen.
14. Click the [x] (Close) button to close the Control Panel.
15. Turn off your camera and computer.
16. Turn your computer back on and reinstall the software from the CD-ROM.
    *At this time, do not connect your camera.
17. Connect your camera via the USB cable to your computer. When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

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- **For Windows XP**

Step 1 First, follow the steps below.

1. Load the Caplio CD-ROM into your computer.
2. Connect your camera via the USB cable to your computer.
3. Click the [Start] button on the Windows taskbar to display the [Start] menu.
4. On the [Start] menu, click [Control Panel].
5. On the Control Panel displayed, click [Switch to Classic Display]. The display changes its appearance and the [System] icon appears.
6. Double-click the [System] icon.
7. On the [System Properties] screen displayed, click the [Hardware] tab.
8. On the [Hardware] tab page displayed, click the [Device Manager] button.
9. On the [Device Manager] screen displayed, click [+] on the left side of [Other Devices].
10. Check if there is [Caplio 400G] below it. If there is, right-click [Caplio 400G] to display the menu and select [Update Driver].
11. Windows XP will display the [Hardware Update Wizard] screen.
12. Make sure that [Install the software automatically (Recommended)] is selected, and then click [Next].
13. When the [Completing the Hardware Update Wizard] screen appears, click [Finish].
14. Click the [x] (Close) button to close the [Device Manager] screen.
15. Click [OK] to close the [System Properties] screen.
16. Click the [x] (Close) button to close the Control Panel.
17. Turn off your camera and computer.
18. Turn your computer back on and reinstall the software from the CD-ROM.
    *At this time, do not connect your camera.
19. Connect your camera via the USB cable to your computer. When the computer recognizes the camera, the [New Hardware] screen launches and your camera is registered by the computer.

Step 2 If your computer still does not recognize the camera, follow the steps below.

1. Load the Caplio CD-ROM into your computer.
2. Connect your camera via the USB cable to your computer.
3. Click the [Start] button on the Windows taskbar to display the [Start] menu.
4. On the [Start] menu, click [Control Panel].
5. On the Control Panel displayed, click [Switch to Classic Display]. The display changes its appearance and the [System] icon appears.
6. Double-click the [System] icon.
7. On the [System Properties] screen displayed, click the [Hardware] tab.
8. On the [Hardware] tab page displayed, click the [Device Manager] button.
9. On the [Device Manager] screen displayed, click [+] on the left side of [Imaging Devices].
10. Check whether or not there is an unknown device symbol (!) indicated for [Caplio G4]. If there is, right-click the unknown device symbol to display the menu and select [Driver Update].
11. Windows XP will display the [Hardware Update Wizard] screen.
12. Make sure that [Install the software automatically (Recommended)] is selected, and then click [Next].
13. When the [Completing the Hardware Update Wizard] screen appears, click [Finish].
14. Click the [x] (Close) button to close the [Device Manager] screen.
15. Click [OK] to close the [System Properties] screen.
16. Click the [x] (Close) button to close the Control Panel.

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Symptom 2 **Even if you check [The same image will not be saved] in the Ricoh Gate La Optional Settings, the same images are loaded into your computer.**

Measure

The camera's clock is incorrectly set or the camera's clock information has been reset. To allow the [The same image will not be saved] function to work properly, the camera's clock information must be set properly. Set it properly. (See P.17.)

Symptom 3 **Files loaded from the camera into the computer were deleted. You attempted to load the same files from the camera again but failed.**

Measure

If [The same image will not be saved] is checked in the Ricoh Gate La Optional Settings, files loaded into your computer once cannot be loaded again. In the Ricoh Gate La Optional Settings, uncheck [The same image will not be saved]. (See P.145.)

Symptom 4 **Cannot play back movies**

Measure

DirectX may not be installed (only for Windows 98/98SE/Me/2000). Install DirectX from the Caplio CD-ROM. (See P.139.)

Symptom 5: **RICOH Gate La is always activated when the camera is connected to a Windows XP computer through a USB cable.running Windows XP, via USB connection.**

Measure

Connect the camera to the computer through the USB cable, and then open My Computer from the Start menu on Windows Taskbar. Right-click the camera icon on the My Computer screen and click Properties to open the camera's Properties screen. Click the [Event] tab on the Properties screen. For the computer operation, select "None" or "Select Program to Execute " and click OK. If "None" is selected, nothing happens when the camera is connected to the computer. If "Select Program to Execute" is selected, a screen is displayed each time the camera is connected to the computer. Then you can choose a program to activate.

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K. Error Messages

If an error message is displayed on the LCD Monitor, take the corresponding action.

Error Message	Cause and Action	Page
INSERT CARD	No card is loaded. Insert a card.	P.18
SET DATE	The date is not set. Set the date.	P.17
FILE NUMBER OVER	The file number limit has been exceeded. Please use another card, or delete unwanted files.	P.18 P.101
UNMATCHED FILE	A file that cannot be played back was selected.	-
INSUFFICCIENT MEMORY. CONTINUE?	Because there is not sufficient capacity on the card, all the files cannot be copied. Use another card.	P.115
PROTECTED	You are trying to delete a protected file.	P.111
WRITE-PROTECTED	The card is "Locked (write-protection)". Unlock the card.	P.18
PRINT SETTINGS CANNOT BE SET FOR THIS FILE.	This file (movies and other) cannot be selected for printing.	-
INSUFFICIENT MEMORY	Files cannot be stored. Make sure there is enough free space, or delete files.	P.101
	The image print number limit has been exceeded. Select an image and set the number to 0.	P.116
FORMAT INTERNAL MEMORY	It is necessary to format internal memory.	P.122
FORMAT CARD	The card is not formatted. Format the card.	P.121
CARD ERROR	Please reformat. If, after doing so, the error message still appears, the card may be faulty. Do not use the card.	P.121
WRITE TO CARD	Writing file to memory. Wait until writing finishes.	-
NO FILE	There are no files that can be played back.	-
CANNOT RECORD	The Number of remaining shots is 0. Switch to another card or internal memory.	P.18

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L. Warranty and Servicing

1. **This product is backed by a limited warranty. During the warranty period mentioned in the Warranty supplied with your camera, any defective parts will be repaired free of charge. In the event of a camera malfunction, contact the dealer from which you purchased the camera or your nearest Ricoh service office. Please note that you will be not be reimbursed for the cost of bringing the camera to the Ricoh service office.**
2. **This warranty does not cover any damage resulting from:**
   1. **failure to follow the instructions in the instruction manual;**
   2. **repair, modification or overhaul not conducted by an authorized service center listed in the instruction manual;**
   3. **fire or natural disaster;**
   4. **Improper storage, such as exposing the camera to high temperatures, humidity, or mothballs; storing it with a leaking battery; storing the camera in a dirty condition so that it becomes moldy; or otherwise insufficiently caring for the camera;**
   5. **Submergence; exposure to floods or spilled alcohol or other beverages; allowing sand or mud to enter the camera; exposure to physical shocks; or dropping the camera.**
3. **After the warranty period has passed, you will be liable for all repair fees, including those incurred at an authorized service center.**
4. **You will be liable for all repair fees, even within the warranty period, if the warranty card is not attached or if the distributor's name or the purchase date have been changed or are not indicated on the card.**
5. **Expenses for overhaul and thorough inspection by special request of the customer will be charged to the customer, whether or not they are incurred during the warranty period.**
6. **This warranty only applies to the camera and not to the accessories, such as the case and strap, nor does it apply to the battery and other consumables provided.**
7. **Any consequential damages arising from failure of the camera, such as expenses incurred in taking pictures or loss of expected profit, will not be reimbursed whether they occur during the warranty period or not.**
8. **The above provisions refer to repairs offered free of charge, and do not limit your legal rights. The intention of the above provisions is also described in the warranty card provided with this camera.**
9. **Parts essential to the servicing of the camera (that is, components required to maintain the functions and quality of the camera) will be available for a period of five years after the camera is discontinued.**
10. **Please note that if the camera is seriously damaged by flooding, submergence, infiltration of sand or mud, violent shocks or dropping, it may not be repairable, and restoration to its original condition may be impossible.**

- Before sending the camera in for repair, check the battery and read the instruction manual again to ensure proper operation.
- Some repairs require a significant amount of time to be completed.
- When sending the camera to a service center, please include a note which describes the defective part and the problem as precisely as possible.
- Remove all accessories not related to the problem before sending the camera to the service center.
- Before taking any important pictures (such as at weddings, on trips abroad, etc.), test the camera to check operation and ensure proper functioning. We recommend that you keep this manual and spare battery on hand.
- This warranty does not apply to data stored on an SD Memory Card or in internal memory.

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INFORMATION TO THE USER

USA FCC Part15 Class B

The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. In this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help. (FCC 15.105B)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. (FCC 15.21)

Properly shielded and grounded cables and connectors must be used for connection to a host computer in order to comply with FCC emission limits. (FCC 15.27)

An AC adapter with a ferrite core must be used for RF interference suppression.

COMPLIANCE INFORMATION STATEMENT

Product Name: DIGITAL CAMERA
Model Number: Caplio 400G wide
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

RICOH CORPORATION
5 Dedrick Place, West Caldwell NJ, 07006 Tel.: 1-800-225-1899

Note to Users in Canada

Note: This Class B digital apparatus complies with Canadian ICES-003

Remarque Concernant les Utilisateurs au Canada

Avertissement: Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada

IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

CE

Declaration of Conformity
"The Product complies with the requirements of the EMC Directive 89/336/EEC."

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Telephone Support Numbers in Europe

UK	(from within the UK)	02073 656 580
	(from outside of the UK)	+44 2073 656 580
Deutschland	(innerhalb Deutschlands)	06331 268 438
	(außerhalb Deutschlands)	+49 6331 268 438
France	(à partir de la France)	0800 91 4897
	(en dehors de la France)	+33 800 91 4897
Italia	(dall'Italia)	02 696 33 451
	(dall'estro)	+39 02 696 33 451
España	(desde España)	91 406 9148
	(desde fuera de España)	+34 91 406 9148
Nederland	(binnen Nederland)	0800 022 9494
	(vanuit het buitenland)	+49 6331 268 443

http://www.service.ricohpmmc.com/

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